EXHIBIT 1

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Page 1
 1
                                          Pages:
                                                  1-153
 2
                                          Exhibits: 1-11
 3
                   UNITED STATES DISTRICT COURT
                   EASTERN DISTRICT OF MICHIGAN
 4
 5
                         SOUTHERN DIVISION
 6
                           C.A. NO.: 2:21-cv-10312-SJM-RSW
     **********
 7
 8
     TRUTEK CORP.,
 9
                Plaintiff,
10
     vs.
11
     BLUEWILLOW BIOLOGICS, INC. ROBIN ROE
12
     1 THROUGH 10, GENDER NEUTRAL FICTITIOUS NAMES,
13
     AND ABC CORPORATION 1 THROUGH 10
14
     (FICTITIOUS NAMES).
15
                Defendants.
     **********
16
17
                     DEPOSITION of DR. MANSOOR AMIJI, a
18
     witness called on behalf of the Plaintiff, taken
19
     pursuant to Michigan Court Rules Chapter 2, Section
20
     306, before Susan Baxter, a Court Reporter and Notary
21
     Public, in and for the Commonwealth of Massachusetts,
22
     at Veritext Legal Solutions, 101 Arch Street, Boston,
23
     Massachusetts, on Friday, October 14, 2022, commencing
24
     at 8:36 a.m.
```

	Page 2
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1			INDEX	
2	WITNESS		DIRECT CROSS REDIRECT F	RECROSS
3	MANSOOR	AMIJI		
4	(By Mr.	Kremen)	4	
5				
6			EXHIBITS	
7	NO.		DESCRIPTION	PAGE
8	Exhibit	1	Notice of Deposition	4
9	Exhibit	2	US Patent 802	13
10	Exhibit	3	Curriculum Vitae	13
11	Exhibit	4	Expert Report on Invalidity	14
12	Exhibit	5	Reply to Expert Report on	15
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16	Exhibit	7	Declaration in Support of	17
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24		(Exhil	oits retained by Court Reporte	er)

		Page 4
1		PROCEEDINGS
2		
3		MANSOOR AMIJI, after being
4		satisfactorily identified and duly sworn by the
5		Notary Public, was examined and testified as
6		follows:
7		
8		DIRECT EXAMINATION
9		BY MR. KREMEN:
10	Q	Good morning, Dr. Amiji. My name is Stanley
11		Kremen and I represent the Plaintiff, Trutek
12		Corporation in this action. I understand that
13		you've been deposed previously; is that correct?
14	A	Yes.
15	Q	Could you please state your name for the record?
16	A	Mansoor Amiji. Mansoor is spelled M-a-n-s-o-o-r.
17		Amiji is A-m-I-j-I.
18		MR. KREMEN: Can I have the notice of
19		deposition?
20		
21		(Whereupon, Notice of Deposition, was
22		marked as Exhibit No. 1.)
23		
24	Q	Have you seen it before?
12 13 14 15 16 17 18 19 20 21 22 23	Q A	Corporation in this action. I understand that you've been deposed previously; is that correct? Yes. Could you please state your name for the record? Mansoor Amiji. Mansoor is spelled M-a-n-s-o-o-r. Amiji is A-m-I-j-I. MR. KREMEN: Can I have the notice of deposition? (Whereupon, Notice of Deposition, was marked as Exhibit No. 1.)

Page 5 1 No, I haven't. 2 You're here today to comply with that notice; am 0 3 I correct? 4 Α Yes, I am. 5 You understand that this is a deposition and that 0 6 you're being deposed today, correct? 7 Α Yes. And before I get started on the substance of 8 0 9 today's deposition, I'd like to go over a few 10 ground rules. You probably know most of them 11 because you've been deposed previously, so I'll 12 go with them anyway, okay. 13 First, the court reporter just swore 14 you in. Do you understand that you're under 15 oath? 16 Α Yes, I do. Do you understand that you must tell the truth 17 0 18 and that if you do not, you are subject to 19 penalties of perjury? 20 Α Yes. 21 And you understand that the testimony that you 22 give today is the same as if you were testifying in court? 23 24 Α Yes, I do.

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Page 6 1 Do you understand that you are obligated to 0 2 answer my questions completely, truthfully, and 3 accurately, correct? 4 Α Yes. 5 Because the court reporter is recording our 0 conversation is absolutely essential that your 6 7 answers be verbal. A transcript of the deposition will be generated. When a yes or no 8 9 answer is required, please do not nod or shake 10 your head, and responses like Uh-huh or Mm-hmm do 11 not register as an answer. So a verbal answer is 12 required. Okay? 13 Yes. Α And we should not speak over each other. Let me 14 15 finish asking my question before you answer. I will also let you finish answering without 16 17 interruption. Do you understand? 18 Α Yes. 19 Okay. If for any reason you need a break, please 0 20 let me know. If I'm in the middle of a line of 21 questioning when you tell me that, that you need 22 a break, I will finish the line of questioning 23 and then you can go on break; is that understood? 2.4 Α Yes.

Page 7 1 And please understand that if you go to lunch or 0 2. go on break, you may not discuss the case or your testimony with anyone including your attorney; is that clear? 4 5 Α Yes. 6 Are you taking any medications that could 0 7 interfere with your ability to concentrate on the 8 questions and answers and to answer my questions 9 as required? I'm not. 10 Α 11 Is there any reason medical or otherwise that you 0 12 believe that you might not be able to answer 13 completely, truthfully and accurately? 14 No, there isn't. 15 If for some reason that changes during the course 0 16 of the day, please let me know. Okay? 17 Α Yes. 18 Now, your attorney may object from time to time 0 19 and unless she instructs you not to answer, you 20 understand that you are obligated to answer my 2.1 questions to the best of your ability? 22 Α Yes. 23 MR. ALTMAN: Stan, before you continue, 24 before we had a brief discussion that we have

Page 8 1 agreed that all objections are preserved other than objections to form. 3 MR. KREMEN: Okay. 4 If you don't understand one of my questions, or Q 5 if the question is confusing, please say so and ask me for clarification; is that okay? 6 7 Α Yes. So it's fair to assume that if you answer a 8 0 question that you understand it? 9 10 Α Yes. 11 As an expert, you understand that I may ask you 0 12 questions concerning your opinions and that some 13 of those questions may challenge your opinion; do 14 you understand that? 15 Α Yes. 16 Q Your Notice of Deposition required you to produce 17 certain documents within seven days prior to this 18 deposition. If you would look at that. I know 19 that you've provided me with, I think on Monday, 20 you provided me with a whole bunch of expert 2.1 declarations and reports. So I'm noting that you did that. 2.2 23 MS. PETERSON: Yes. We produced copies 24 of publicly available prior declarations from

Page 9 Dr. Amiji and we objected to the remaining 1 category of requests and Dr. Amiji doesn't have any other documents to produce today. MR. ALTMAN: We talked about that he'd 4 5 be coming with invoices. 6 MR. KREMEN: Right. No, we did not. 7 MS. PETERSON: We said that he would be prepared to talk about how much 8 9 time he has spent on the matter, and he is, so 10 you can ask him those questions. 11 MR. ALTMAN: We said that we wanted the 12 invoices. 13 MS. PETERSON: And I said that we were 14 not going to be producing copies of the invoices. 15 You can ask him questions about how much time he 16 spent. And you said as long as he's prepared 17 with an answer, that's fine. And he is prepared 18 with an answer. 19 MR. ALTMAN: By the way, what is your 20 objection to producing copies of the invoices? 2.1 MS. PETERSON: I don't think it's 2.2 called for under the rules. And we've already --23 we've already covered all of this and I thought 24 we had an agreement. You can ask him the

		Page 10
1		question and that information, he'll provide it.
2	Q	Now, when were you hired as an expert by
3		BlueWillow?
4	A	Sometime in March this year.
5	Q	Now, were you paid a flat fee?
6	A	I'm paid by the hour.
7	Q	Now, what is your hourly rate that you charge
8		BlueWillow for your work?
9	A	Nine hundred.
10	Q	Did you send BlueWillow an invoice or invoices
11		for the work that you did?
12	A	Yes, I have.
13	Q	How much did you bill them to date?
14	A	I believe for the work that I have done, all the
15		expert reports, it's about 50 hours.
16	Q	And what is the dollar amount?
17	A	Nine hundred times 50.
18	Q	Okay. Did they pay you the full amount of your
19		invoice or invoices?
20	A	I believe they've been paid, except for maybe the
21		last month's invoice.
22	Q	You didn't bring a copy of the invoices with you;
23		is that correct?
24	A	Yes.

Page 11 1 I'd like to request a copy of the invoice that 0 2 you sent to BlueWillow for your work to date. 3 Now, did you bill BlueWillow for all the work that you've done for them to date? 4 5 Α Except for the work that I've done this month, I 6 have not billed yet. 7 Okay. I'd also like to request a copy of future 0 invoices that will be submitted to BlueWillow for 8 9 all work performed by you to date. 10 MS. PETERSON: We'll take that under 11 advisement subject to our objections. 12 MR. KREMEN: Okay. 13 0 Now, what did you do to prepare for this 14 deposition today? I read my expert reports. I read the expert 15 Α 16 report from the plaintiff side. I read the 17 patent in suit. Some of the prior art document 18 -- yes, mostly reading different types of 19 reports. Did you meet with any of BlueWillow's attorneys 20 0 21 to prepare for this deposition either in person or otherwise? 22 23 MS. PETERSON: Answer that yes or no. 24 Α Yes.

		Page 12
		raye 12
1	Q	Which attorneys?
2	A	Miss Peterson.
3	Q	How many times?
4	A	We met yesterday and on Wednesday.
5	Q	For how long?
6	A	About two hours each.
7	Q	Was anyone else present along with Liane Peterson
8		either in person or otherwise?
9	А	No.
10	Q	Did you speak with anyone from BlueWillow in
11		preparation for your deposition?
12	А	No.
13	Q	Did your attorney or anybody else show you any
14		documents in preparation that you did not already
15		have?
16	A	No. I think we just went over the reports and
17		the exhibits.
18	Q	Other than your attorney, did you speak with
19		anyone from BlueWillow in preparation for your
20		deposition?
21	A	No.
22	Q	Have you ever had any conversations directly with
23		somebody from BlueWillow?
24	A	No.

		Page 13
1	Q	So you never spoke with anybody from BlueWillow?
2	А	No.
3	Q	Have you spoken with any attorneys other than
4		Ms. Peterson regarding this case?
5	А	No, I have not.
6		MR. KREMEN: Can I have the 802 patent.
7		That will be marked as Exhibit 2.
8		
9		(Whereupon, United States Patent 802,
10		was marked as Exhibit No. 2.)
11		
12	Q	You do understand that this litigation is about
13		infringement of this patent by your client,
14		correct?
15		MS. PETERSON: Objection to form.
16	A	Yes, I understand this is the patent in suit.
17	Q	And this is the document that's marked as
18		plaintiff Exhibit 2.
19		MR. KREMEN: What about his curriculum
20		vitae.
21		
22		(Whereupon, Curriculum Vitae, was
23		marked as Exhibit No. 3.)
24		

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Page 14 This document is your curriculum vitae or resume. 1 0 2 Would you just confirm that that is yours? 3 Α Yes, it is. And you wrote that all yourself, everything in 4 0 5 there is something you wrote specifically, right? 6 Α Yes. 7 Just as a practical MR. ALTMAN: matter, given that we're using universal 8 9 numbering, while we may bring an extra copy for 10 the witness, we're not going to bring copies of 11 exhibits that have already been marked in a 12 previous deposition for counsel. Just to cut 13 down on the paper. 14 MS. PETERSON: Okay. 15 MR. KREMEN: Now, I need the reports. 16 MR. ALTMAN: We'll do one at a time. 17 Which one do you want first? 18 MR. KREMEN: I quess the initial invalidity report. 19 20 21 (Whereupon, Invalidity Report, was 22 marked as Exhibit No. 4.) 23 24 This is a report that you submitted that we have Q

Page 15 1 from you. Is this your report? 2 Α This is the opening invalidity report, 3 Exhibit 4. And it contains your opinions that you formed on 4 Q 5 that subject; is that correct? 6 Yes, it is. Α 7 MR. KREMEN: I need the second one. 8 9 (Whereupon, Reply Expert Invalidity 10 Report, was marked as Exhibit No. 5.) 11 12 Q This one is labeled -- now, the first one was 13 actually labeled Opening Expert Report -- Number 14 4 was Opening Expert Report of Mansoor M. Amiji, 15 Ph.D. on Invalidity. And this particular 16 document, the second document, will be Reply 17 Expert Report of Mansoor M. Amiji on Invalidity. 18 Is this your report? 19 Yes, it is. Α Now, I noticed that both of them are reports of 20 0 21 invalidity. What is the difference between those 22 reports? 23 So this is the opening report. Exhibit 4 is 24 opening report that I provided on the invalidity

Page 16 1 of the patent claims, patent in suit, data. 2. the reply report is based on the opinions that are provided by the two experts and I was 4 rebutting those opinions. 5 Okay. Now, the next one will be, I guess, 6. 0 6 7 (Whereupon, Responsive Expert Report on 8 Non-Infringement, was marked as Exhibit 9 No. 6.) 10 11 Now, I have another one called Responsive Expert 0 12 Report of Mansoor M. Amiji, Ph.D on Non-13 Infringement. That's marked as Exhibit 6. This 14 is your report also, right? Yes, it is. 15 Α 16 0 What is the substance of it? 17 So, this is a report based on opinions related to Α non-infringement of the BlueWillow NanoBio 18 19 Protect product based on the comments and 20 opinions of Dr. Lemmo, the Trutek expert. 2.1 Now, going back to Exhibit Number 5, which is the 0 22 Reply Export Report. What are you replying to in 23 that report? 24 I'm replying to the opinions of the Trutek expert Α

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```
Page 17
 1
          Which one -- which are whom?
 2
     0
 3
     Α
          Dr. Lemmo and Mr. Haidri.
          And the Responsive Expert Report on Non-
 4
     Q
 5
           Infringement, you're replying to whom?
 6
          To Dr. Lemmo.
     Α
 7
          Dr. Lemmo, okay.
     Q
 8
                       MR. KREMEN: Next one we'll mark as
 9
           seven.
10
11
                       (Whereupon, Declaration in Support of
12
                       BlueWillow's Claim Construction Brief,
13
                       was marked as Exhibit No. 7.)
14
15
     0
          This is the Declaration of Mansoor M. Amiji,
16
           Ph.D. in Support of BlueWillow's Claim
17
           Construction Brief. That's your report, right?
          Yes, it is.
18
     Α
19
          And the the purpose of it is to do what?
     0
20
          To support BlueWillow's claim construction brief.
     Α
21
     Q
          All right. Now, you haven't submitted any other
22
           writings that contain your opinions in this case;
           am I correct?
23
2.4
     Α
          That's correct. These are the reports.
```

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		Page 18
1	Q	This is the whole domain?
2	А	These are the reports and declaration.
3	Q	Let me just put these in order here. Now, these
4		reports contain all of your opinions to date in
5		this case; am I correct?
6	A	They do contain all the opinions to date, but if
7		there's anything new that comes from the
8		plaintiff side then I will be rebutting.
9	Q	Okay. But as of today, these are your opinions,
10		right?
11	А	As of today, these are my opinions.
12	Q	Are you continuing to do work developing new
13		opinions?
14	А	As I said, if there is anything that comes from
15		the plaintiff side, if I'm asked to opine on it,
16		I'll be looking at that evidence.
17	Q	But as of today, you're not going to be
18		supplementing your opinions, am I correct, unless
19		some new evidence comes up; am I correct?
20	А	That's correct.
21	Q	Did you you're not an attorney; am I correct?
22	А	No, I'm not.
23	Q	Did you ever attend law school?
24	А	No, I have not.

		Page 19
1	Q	Did you ever sit for a bar examination in any
2		state?
3	А	No, I have not.
4	Q	Are you a Patent Agent licensed to practice in
5		patent matters by the United States Patent and
6		Trademark Office?
7	А	No, I'm not.
8	Q	Have you ever heard the term MPEP?
9	А	No, I have not.
10	Q	It stands for the Manual Patent Examining
11		Procedure. Have you ever read it?
12	А	I am familiar with the patent prosecution
13		process, but I've not read the manual.
14	Q	You've not read the MPEP?
15	А	No, I have not.
16	Q	Let's see. Exhibit Number 6, which is your
17		Responsive Report on Non-Infringement, turn to
18		page nine.
19	А	I'm here.
20	Q	In paragraph 24 you say, "I've been informed that
21		a claim must be construed under the Phillips
22		standard."
23		Who informed you of this?
24	A	Counsel.

Page 20 1 Was this the first time that you were informed of 0 2 that? 3 Α I'm familiar with the claim construction process, but the standard specifically I was informed by 4 5 counsel. When were you informed of this? 6 Q 7 When I started working on the case, and Α subsequently, when I started working on my 8 9 reports. 10 Q To your understanding, what is the Phillips 11 standard? Well, as I've stated in my report, it's the 12 Α 13 standard that the claim are given their plain and 14 ordinary meaning as understood by the person of 15 skill in the art. 16 0 Okay. Is that always the case, that they're 17 given the plain and ordinary meaning? 18 MS. PETERSON: Objection to form. 19 Actually, just objection. He's already said he's 20 not a legal --21 MR. KREMEN: I'm just asking what his 22 understanding is. 23 MS. PETERSON: I know. He's already 2.4 told you he's not a patent lawyer. And he said

		Page 21
1		that
2		MR. KREMEN: That's a speaking
3		objection.
4		MS. PETERSON: his understanding is
5		provided in his report, so.
6	Q	In paragraph 27 on page 10, would you read it to
7		yourself?
8	A	(Witness complies.)
9	Q	Who informed you of this?
10	A	Counsel.
11	Q	When were you informed?
12	A	Around the same time that I was working on my
13		expert reports.
14	Q	Would you read paragraph 27 aloud for the record.
15		Would you read paragraph 27 on page 10 aloud?
16	A	Yes, paragraph 27 on page 10?
17	Q	Actually, the first sentence only.
18	A	First sentence on paragraph 27 of page 10 says,
19		"I've been informed that literal infringement
20		requires that every limitation set forth in a
21		claim must be found in an accused product."
22	Q	Keep going. Next one.
23	A	"I'm also informed that direct infringement
24		requires a party to perform each and every step

Page 22 or element of a claimed product or method." 1 2 And the next sentence. 0 3 Α "I've also been informed that for purposes of any infringement analysis, the comparison is between 4 5 the properly construed claims and the accused product." 6 7 Now, what is your understanding of those three 0 sentences? 8 9 Α Based on these specific requirements in my 10 analysis, my understanding is that in order for 11 the BlueWillow product, Nano Biotech product, to infringe the claims of the 802 patent, each and 12 13 every element of the claim has to be met. 14 Okay. Also, what about -- I've seen this --15 strike that. 16 Would you agree that a patent is not 17 required to contain test data? 18 MS. PETERSON: Objection. 19 Well, my understanding of -- and again, I'm not a Α 20 lawyer, so I don't know exactly what the patent 21 examiner looks for in the prosecution. But the 22 patent does require a personal skill in the art, 2.3 information from there that suggests that the 2.4 patent does enable the full scope of --

Page 23 1 It has to be enabled, but is it required to have 0 2 test data? 3 MS. PETERSON: Objection. He's not a lawyer. You're asking him for opinions related 4 5 to legal requirements, and that is clearly not a testimony that he's providing in this case. 6 7 He opines on it. MR. KREMEN: MS. PETERSON: I disagree with that. 8 9 He is not providing legal testimony. He is 10 providing technical expert testimony on ultimate, 11 in the factual issues that underlie the legal 12 issues in the case, but he is not providing legal 13 opinions. He is not a lawyer. 14 MR. KREMEN: Okav. 15 0 You would also agree -- would you agree that not 16 everyone who practices in the field of pharmacy 17 or pharmacology has a Ph.D? 18 MS. PETERSON: Objection to form. 19 Vaque. It depends on the practice. 20 Α 21 But not everyone has a Ph.D, yes? 22 Α Yes, it would depend on the practice. If you're 23 a clinical pharmacist, you get a PharmD degree. 2.4 If you're a retail pharmacist, you could have a

		Page 24
1		bachelor's degree.
2	Q	Now, what about a pharmaceutical formulator, does
3		a pharmaceutical formulator have to have a Ph.D?
4		MS. PETERSON: Objection to form.
5		Vague.
6	А	Again, depends on in other kinds of formulations
7		that they were developing. They could have a
8		master's degree and then have practical
9		experience.
10	Q	So they have a bachelor's degree and practical
11		experience?
12	A	Again, if they're just simply able to develop the
13		formulation, but in the purposes of the claims of
14		the 802, that formulation also has to function in
15		specific ways.
16		MR. KREMEN: That is a non-responsive
17		question. Objection.
18	Q	You have been listed as an inventor or
19		co-inventor on several patents, yes?
20	A	Yes, I am.
21	Q	Approximately, how many patents?
22	A	About 15 or so issued patents and some that are
23		in the prosecution right now.
24	Q	Were any of these US patents granted where you

Page 25 were the sole inventor, not co-inventor? 1 2 Α I have two that were issued that I am the sole 3 inventor. Now, you said you're not an attorney. Typically, 4 Q 5 when you're working on preparing patent 6 applications, did you work with an attorney? 7 Yes, I did. Α Typically, who would draft the specification? 8 0 9 MS. PETERSON: Objection to form. 10 Α It depends on the specific sections of the 11 specification. Sometimes they ask me to provide examples, but in other parts of the 12 13 specification, the attorneys provided me and then 14 I reviewed. 15 0 Where there would be drawings, who would do the 16 drawings? 17 Α Again, it depends on the specific drawings. But 18 generally, if these are figures that came from 19 data, I would be the one providing those. Who would draft the claims? 20 0 21 Α Again, working with the attorneys, they would 22 initially come with some understanding of the 23 claim language and then they would ask my 2.4 opinion.

		Page 26
1	Q	So they would draft it and then you would review
2		it, right?
3	А	That's correct.
4	Q	Now, just to get some shorthand considerations
5		out of the way, for the rest of the deposition,
6		I'll refer to the plaintiff as Trutek and the
7		defendant as BlueWillow; is that okay?
8	А	That's fine.
9	Q	Okay. I'll also refer to US patent number
10		8163802, which is Exhibit 2. And I'll refer to
11		that as the 802 patent; is that okay?
12	А	Yes.
13	Q	We'll talk about the 802 patent later. I will
14		also refer to the United States Patent and
15		Trademark Office as the USPTO. Have you heard
16		that expression before, right?
17	А	Yes.
18	Q	And I'll refer to the USPTO Patent Trials and
19		Appeals Board as the PTAB; okay?
20	А	Yes.
21	Q	Now, you've testified in other previous legal
22		matters; is that correct?
23	А	Yes, I have.
24	Q	What percentage of your practice is litigation

		Page 27
1		related?
2		MS. PETERSON: Objection to form.
3	A	So I do my total consulting work is around 25
4		percent.
5	Q	Okay. Now, approximately, how many times have
6		you testified?
7	A	In depositions or trials or both?
8	Q	Both.
9	A	Maybe around 20 times.
10	Q	Did you ever testify at a trial in open court?
11	A	Yes.
12	Q	Approximately, I'm not looking for an exact
13		number, how many times did you testify at trial?
14	A	Five or six.
15	Q	Was your testimony always as an expert witness?
16	A	Yes.
17	Q	Generally, what were the subjects of your
18		testimony?
19	A	Generally, related to pharmaceutical formulations
20		and drug product development.
21	Q	Did they always involve patents in some way?
22	A	Majority of the cases that I've been on are
23		patent related, but I've also been on some
24		contract disputes.
	I	

		Page 28
_		
1	Q	Did you always generate an expert report or
2		declaration prior to your deposition or trial
3		testimony?
4	A	Again, generally, in the patent cases I have.
5	Q	Was there ever a time when a court did not permit
6		you to testify or declined to accept you as an
7		expert witness?
8	А	No.
9	Q	Has there ever been a time that your testimony
10		was limited in any way, to your knowledge?
11	A	Not to my knowledge.
12	Q	Did you ever testify in a proceeding before the
13		USPTO?
14	А	No, I have not.
15	Q	So by testimony, I'm speaking about also
16		deposition testimony.
17	А	Not in front of the USPTO. I have provided
18		declarations for IPR cases.
19	Q	Okay. But were you ever actually deposed in
20		those cases?
21	А	By the attorneys, not by the PTO, not by the
22		Patent and Trademark Office.
23	Q	Okay. Now, what kind of proceedings were they?
24	А	IPR proceedings.

Page 29 1 Well, IPR, but were they PGR interferences, Q 2 appeals? 3 Α Some of them were -- majority have been IPR. So in those proceedings, any testimony you gave 4 Q 5 was always by deposition, there was no open 6 court, right? 7 That's correct. Α Prior to testifying at the USPTO, did you always 8 0 9 submit a report or a declaration under oath? 10 Α Yes, I did. 11 Was there ever a time when the PTAB did 0 12 not permit you to testify or refused to accept 13 you as an expert witness? 14 I don't -- I don't know, but everything that I've 15 done so far has been accepted. 16 0 Incidentally, every time I use the word PTAB, 17 it's P-T-A-B. Did you say that there was never 18 an instance where the PTAB did not accept your 19 testimony or limited your testimony in any way? I'm not aware of. 20 Α 21 Q Now, you do understand that you're testifying 22 here today as an expert witness, correct? 23 Α Yes. 24 And you were hired to serve in that capacity by Q

Page 30 1 the defendant BlueWillow Biologics; is that 2 correct? 3 Α Yes. Now, what is the field of expertise to which you 4 Q 5 will testify? I'm a pharmaceutical formulator. I develop 6 Α 7 pharmaceutical products. Is that list exhaustive? Do you have any other 8 0 9 fields of expertise that you're presenting 10 yourself? 11 I'm an expert in the pharmaceutical Α 12 formulations and characterization, and 13 ultimately, applications of pharmaceutical 14 formulations for treatment or prevention of 15 diseases. 16 0 Now, in your capacity as an expert in these 17 fields, you generated two reports on the validity 18 of the 802 patent on behalf of the defendant; 19 that's correct, yes? Yes, I did. 20 Α 21 And that is 4 and 5. Now, these reports, they 22 contain all your opinions concerning the validity 23 of the 802 patent; is that correct? 2.4 Α Yes.

Page 31 Let's just take a look here. Turn to Page 95 of 1 0 2 Exhibit 4. At the top of the page, under the 3 heading subject matter eligibility, could you read the sentence labeled as Roman numeral 12. 4 5 Α "Analysis: Claims 1, 2, 6, and 7 are invalid for 6 being directed to ineligible subject matter under 35 USC Section 101." 7 Okay. And you allege that these claims are 8 0 9 directed to ineligible subject matter, right? 10 Α Yes, I do. 11 Now, you would agree that because claim one 0 recites a process or a method, it falls into the 12 13 class of inventions that are patentable under 14 Section 101; is that correct? 15 MS. PETERSON: Objection to form. 16 Α Again, my analysis for the subject matter and 17 eligibility, as I discussed in my report, is 18 based on the fact that the claims are derived 19 towards the ability of this composition or to 20 attract electrostatically, which is a well known 21 phenomena in nature. 22 0 You you express an opinion about the statute of 23 35 USC 101, what is 101? 24 MS. PETERSON: Objection.

Page 32 1 Mischaracterizes his opinion. He's not a patent lawyer. MR. KREMEN: Well, he very specifically mentioned the statute. I have the right to 4 5 question him on that. 6 MS. PETERSON: He did not express an 7 opinion as to the meaning of the statute, which 8 is what you just asked him to provide. 9 provided technical opinions relating to the 10 patent. If you want to ask him about those 11 opinions, I'm sure he's prepared to answer. he's not providing -- your question was directed 12 13 to what is Section 101 requiring. He's not a 14 legal expert. 15 MR. ALTMAN: Liane, that's a speaking 16 objection. They're not allowed. It's just 17 objection form. 18 MS. PETERSON: And I started off with 19 an objection to the form and Mr. Kremen followed 20 up, so I'm just answering his question. 2.1 MR. ALTMAN: I don't think that's what 2.2 took place but that's fine. 23 So as it stands right now, you don't know what 24 101 says?

Page 33 1 MS. PETERSON: Objection. 2 Mischaracterizes his testimony. 3 А As I mentioned in my report, I apply these standards in the standard. I've discussed it in 4 5 my report, Exhibit 4, under the specific standards that I've applied to my analysis. 6 7 I'm going to present you with --0 8 9 (Whereupon, US Code Section 101, was 10 marked as Exhibit No. 8.) 11 12 Q Do you know what the standard is in 101? 13 MS. PETERSON: Objection, form. 14 As I mentioned before, I was provided with these 15 standards, and I mention these in my report, 16 specifically starting on paragraph 30, how I 17 understand -- my understanding of the patent law 18 in what was provided to me. And then subsequent 19 to that, I have discussed the various parts of 20 those standards. 21 Q Have you ever given an opinion on this standard 22 before? 23 Yes, I'm sure I have. Α 24 I'm going to give you a copy of 35 USC 101. Q And

Page 34 1 could you read the statute aloud? 2 MS. PETERSON: Excuse me, what 3 deposition exhibit number are we marking this as? 4 MR. ALTMAN: Eight. I'm sorry. 5 Α The document says, "Whoever invents or discovers 6 any new and useful process, machine manufacturer 7 or composition of matter, or any new and useful improvement thereof may obtain a patent 8 9 therefore, subject to the conditions and requirements of this title." 10 11 Now, is this your understanding of the standard 0 12 of 35 USC 101? 13 MS. PETERSON: Objection, vaque, 14 ambiquous. 15 Α Again, if this is the standard as you have 16 presented to me, and I mentioned in my report, I 17 specifically discuss the various aspects of those 18 standards in the context of my analysis. 19 Now, would you agree that because claim one is a Q 20 process, and claim two is a composition of 21 matter, discusses a composition of matter, that 22 the claims fall within the classification of 2.3 inventions patentable under the statute? 2.4 MS. PETERSON: Objection to form.

Page 35 1 Ambiguous. Calls for an answer outside of the 2 testimony and opinions that he's providing in 3 this case. MR. ALTMAN: Liane, that's a speaking 4 5 objection. There's no speaking objections. So I'm not a lawyer, but as I read the claims, 6 Α 7 and in view of a personal skill in the art, I inform my opinions related to all of the 8 9 different sections in my invalidity. 10 0 So you wouldn't know? 11 I have not really looked at the specific --Α 12 Q Well, you're looking at it right now. I mean, 13 what is your -- it gives a group of 14 classifications of things, of types of things 15 that are patentable, okay. And it says a 16 process, a machine, a manufacturer or composition 17 of matter, or any new and useful improvement 18 thereof. Is this claim one concern a process or 19 a method? It's a method, but it is a method of 20 Α 21 electrostatically inhibiting --22 0 I'm not -- that's not what I'm asking. That's 23 not responsive. I was very specific. Does it 2.4 cover a process, a method?

Page 36 1 The claim covers a method, but the method of Α 2. electrostatically attracting or inhibiting --3 Q We'll get to that afterwards. But it --4 MS. PETERSON: Counsel, can you please let the witness finish his question -- or finish 5 6 his answer. 7 MR. ALTMAN: Why don't you ask it again 8 so we have a clean --MR. KREMEN: 9 Okay. 10 Is claim one a method or a process, yes or no? Q 11 Yes, it is a method, a claim. Α 12 Q Okay. And is claim two a composition of matter? Claim two is a formulation. 13 Α 14 Which is a composition of matter, yes? 0 15 Α Yes. 16 0 So just in terms of the category of things that 17 are patentable, that are inventions patentable, 18 those two claims fall within that category, am I 19 right? 20 Objection to form. MS. PETERSON: 2.1 Α Again, just looking at the term method or 2.2 formulation, they fall, but once you read the 23 entirety of the claim it doesn't. 24 Objection. MR. KREMEN:

Page 37 1 Mr. Kremen, again, MS. PETERSON: 2. please let the witness finish his answer. If you have an objection to his question, that's fine, but wait until his answer is complete rather than 4 5 cutting him off. 6 MR. KREMEN: Objection. The answer is 7 non-responsive after the word but. 8 0 Now, in paragraph 202, you allege that the claims of the 802 patent are directed to laws of nature 9 10 or natural phenomenon, yes? 11 MS. PETERSON: Objection. Mischaracterizes --12 13 That's a speaking MR. ALTMAN: 14 objection, Liane. It's objection form. 15 MS. PETERSON: It's a concise statement 16 of the objection. 17 MR. ALTMAN: No, it's not. That's a 18 speaking objection. Are you asking about paragraph two of Exhibit 4? 19 Α 20 0 Yes. 2.1 Yes, that's what I'm -- that's my opinion in Α 22 paragraph 202. 23 Okay. Because of this subject matter, it's your 0 24 opinion that the subject matter of the claims are

Page 38 1 patent ineligible; am I right? 2 Α That's correct. 3 0 Okay. And that law of nature is electrostatic 4 traction and repulsion, yes? 5 Α Yes. Isn't it true that all inventions, patentable or 6 Q 7 not, utilize laws of nature? MS. PETERSON: Objection to form. 8 9 Α My understanding is that for subject matter to be 10 patentable, there has to be some novelty beyond 11 what is well known to personal skill in the art 12 as occurring by nature. 13 That's non-responsive. Can you think of a patent 0 14 that does not involve somehow a law of nature? 15 MS. PETERSON: Objection to form. 16 Α Again, there has to be something on top of just 17 attracting electrostatically to be able to be 18 patentable to be novel. 19 All right. Let's try to get some examples here. O 20 Would you say that centrifugal force is a law of 21 nature? 22 Α It depends on --23 Natural phenomena -- just the abstract. 0 2.4 Α Then you have to induce centrifugal force. It's

Page 39 not something that occurs just by itself. 1 2. 0 Okay. So a centrifuge, which uses centrifugal 3 force would be patentable, right? 4 MS. PETERSON: Objection to form. 5 Α Again, it's an instrument that creates that 6 centrifugal force. Here you're relying simply on 7 having negatively charged particle come to a positively charged surface. 8 9 0 Okay. 10 MR. KREMEN: Objection, non-responsive. 11 How about a tire, can a tire do its function 0 12 without gravity? 13 Again, there are many other things that are Α 14 affected by gravity. Tire is just one of them. 15 0 Okay. But it can't function without gravity, a tire won't move a car unless it was -- unless it 16 17 was utilizing the law of nature, which would be 18 gravity, right? Part of the function of the tire is that it 19 Α allows the automobile to be driven, and so the 20 2.1 engine of the automobile and all the other 2.2 elements in the car also affects the function of the tire. 23 24 So does a tire require gravity in order to work? Q

Page 40 Yes, it does. 1 Α 2 Okay. Now, you would agree that merely because a 0 claim invention uses a law of nature, that does 3 not make it patent ineligible; am I correct? 4 5 Α But there has to be something novel about it. In this case, there is nothing novel beyond the fact 6 7 that there is electrostatic attraction. 8 MR. KREMEN: Non-responsive. 9 0 You would also agree that if a claim process utilizes the law of nature and contains 10 11 additional steps, each of which uses a law of nature, that the claim invention could be subject 12 13 matter eligible for patentability, yes? 14 Objection to form. MS. PETERSON: 15 Α I haven't -- I looked at my analysis based on the elements of the claims and the language of the 16 17 claim. 18 Would you agree that -- would you agree that if a 0 19 claims process uses a law of nature and contains 20 additional steps, each of which use a law of 21 nature, that the claim invention could be subject 22 matter eligible for patentability? 23 MS. PETERSON: Objection. 2.4 Again, I have to look at the specifics of those Α

Page 41 claims to make my -- looking at the 802 patent 1 2 claim, my opinion is that --3 Q I'm not speaking about the 802 patent. I'm speaking in general, that if it uses a -- if a 4 5 claim uses a law of nature, and it contains other steps that also use a law of nature, that that 6 7 could be patent eligible, just because it uses a law of nature it's not necessarily ineligible? 8 9 MS. PETERSON: Objection. 10 Α I have to look at those claims to be explicit. I 11 don't know -- sitting here, I don't know exactly 12 what you're talking about. 13 Now, in paragraph 202, you state that the claims 0 14 of the 802 patent utilize electrostatic 15 attraction or repulsion and that they have 16 additional steps or elements, yes? 17 Α Those are the elements A, B, and C. Yes. 18 But you also say that each of those 0 19 additional claim elements are either conventional 20 steps that are well known to a person of ordinary 21 skill, or depend on the very same law of nature 22 or natural phenomenon. That's what you wrote, 23 yes? 2.4 Α Yes.

Page 42 1 Okay. Now, isn't it true that a patent claim 0 2 having a unique combination of conventional steps 3 can still be patentable? MS. PETERSON: Objection to form. 4 5 Α Again, I have to look at the specifics of those 6 patents. 7 But if it has a unique combination of steps, can Q -- I'm not asking you for a particular one. 8 9 giving you a hypothetical, a general claim that 10 has a unique combination of steps, it can be 11 patentable, yes or no? 12 MS. PETERSON: Objection. 13 I have to look at the specifics. I can't just Α 14 sit here and opine on something that's 15 hypothetical. 16 0 But is it possible for a patent to be issued on 17 something that has a unique combination of steps 18 for a method? 19 MS. PETERSON: Objection. It's certainly possible, but doesn't mean it's 20 Α 21 valid. Is it possible that a patent, a valid patent, can 22 Q 23 be issued having a unique combination of steps, 24 hypothetically, not for the 802 patent, but

Page 43 hypothetically? 1 2 MS. PETERSON: Objection. 3 Α Again, any hypothetical patent there's a lot of possibilities out there. I don't know until I 4 5 see the specifics --Have you ever written a method, a patent claim, 6 Q 7 that was a method patent? Α I'm sure I have reviewed them. I haven't written 8 9 per se, but I've reviewed them. 10 Q None of your patents are method or process 11 patents; am I correct? 12 MS. PETERSON: Objection to form. 13 I'm sure there are some other claims within the Α 14 patent that teach a person of skill towards 15 method. The majority of my patents are 16 composition of matter patents. 17 Q Do any of your patent claims rely on any natural 18 laws? 19 I have to look back at those documents to give Α 20 you an honest opinion. 21 Q Okay. So we're saying that -- going back to my 22 previous question. So each of the, in paragraph 23 202, you state that the claims of the 802 patent 2.4 utilize electrostatic attraction repulsion and

Page 44 1 that they have additional steps or elements, yes? 2 Yes, they do. Α 3 0 In addition to that, you mentioned that the steps are either conventional steps or those known to 4 5 purchase skills of the art, yes? 6 Α Yes. 7 What does the -- you indicated that the claims, 0 1, 2, 6 and 7, are invalid for being directed to 8 9 ineligible subject matter on the 35 USC 101. Is 10 the knowledge of a person of ordinary skill 11 relevant to the matter of subject matter 12 eligibility under Section 101? 13 Objection. MS. PETERSON: 14 Yes, I believe it is because it's in the analysis 15 of invalidity for all of the different aspects. You have to consider that under the -- from the 16 17 person of skill in the art and also from the time 18 of the invention based on the priority date. 19 But under 101, under Section 101 which you've O 20 opined on, do you know that the knowledge of a 21 person of ordinary skill is somehow in there? 22 MS. PETERSON: Objection. 23 Again, in my analysis, you know, I considered all 24 of the different opinions that I provided based

Page 45 on the person of skill in the art. 1 2 Even those under Section 101? 0 3 Α All of the opinions that I provided in my expert 4 report. 5 Okay. Turn to page 19. 0 Same exhibit? 6 Α 7 Yes, please. Would you read paragraph 44 aloud? Paragraph 44 states that, "I understand that a 8 Α 9 patent claim is invalid if the specification does 10 not provide any data or other information 11 demonstrating a substantial likelihood that the 12 invention will work as described and claimed." 13 What is the basis of that understanding? 0 14 Well, if you look at the patent itself, there is 15 nothing in the patent that suggests that there's any demonstration of the fact that the 16 17 compositions would actually work the way they are 18 claimed. 19 Can you point to any place in the statute or the O 20 rules where this is written specifically? 21 MS. PETERSON: Objection. Well, again, as I said, I'm applying the 22 Α 2.3 understanding of credible utility analysis in 2.4 terms of the statements that I'm making on page

Page 46 19, paragraph 44, that for a person of skill to 1 2 be able to -- or having a patent claim that are 3 valid, there has to be demonstration in the patent of likelihood of an invention. 4 What is the basis of that statement? 5 0 6 Well, there has to be sufficient disclosure in Α 7 the patent to a person of skill in the art that this is inventive, it is an invention --8 9 0 And that's under Section 101? 10 MS. PETERSON: Objection. 11 Again, this is based on -- the credible utility Α analysis is based on Section 101 and I'm applying 12 13 it specifically to the teachings of the 802 14 patent. 15 Okay. So now turn to page 99. 16 Α I'm there. 17 In paragraph 212, you state that claims 1, 2, 6 Q 18 and 7 are invalid for lack of credible utility, 19 yes? 20 Α Yes. 21 Now, you have a copy of, I think it was P8, was 22 it, which is 35 USC 101? 23 Α Yes. 24 Isn't it true from reading that, that Section 101 Q

Page 47 requires that an invention must be new and 1 2 useful? Take a look at Exhibit 8. 3 Α Yes. It says new and useful process and machine manufacturer --4 That the invention needs to be new and useful. 5 0 MS. PETERSON: Objection. 6 7 Isn't it true that a formulation that actually Q inhibits infection due to inhalation of harmful 8 9 particles is useful? 10 MS. PETERSON: Objection. 11 That formulation if it was actually --Α 12 0 No, but --13 -- the teaching of the 802 would be useful but Α 14 it's not. 15 0 Okay. Now, in paragraph 214 you complain that there's no credible utility for claims 1, 2, 6, 16 or 7 under 35 USC Section 112 because the 802 17 18 patent "Does not include any data or test results 19 for any of the formulations described to 20 demonstrate that they will work as claimed. 21 Isn't it true that no statute or rule 22 specifically required such data or test results 23 for patentability? 2.4 MS. PETERSON: Objection. Misstates

Page 48 1 the work. My opinion is that the 802 patent doesn't teach 3 to a personal skill in the art specific composition that enables the claim. 4 5 MR. KREMEN: Objection, non-responsive. 6 You said that you're familiar with the patent Q 7 prosecution. Now, in terms of patent 8 prosecution, you have to comply with certain 9 rules, certain statutes. Is there any kind of 10 rule that you are familiar with that specifically 11 requires that such data or test results to be 12 present? 13 Objection, form. MS. PETERSON: 14 Well, the patent -- in the totality of the patent 15 it has to teach a person or skill that when you 16 are claiming certain elements, those elements are 17 actually going to be met by the specification of 18 the patent. 19 0 Okay. 802 does not. 20 Α 2.1 MR. KREMEN: Can I have a copy of 112. 2.2 23 (Whereupon, 35 USC 112, was marked as 24 Exhibit No. 9.)

Page 49 This is Exhibit 9. 1 0 2 MS. PETERSON: Stan, is this even --3 actually, I object to Exhibit 12 (sic). This isn't even the proper version of the statute. 4 5 MR. KREMEN: No. I'm going to just tell what it really is. All I did was I -- this 6 7 is not the entire 112. This is just Sections A and B. 8 9 MS. PETERSON: Yes, but it's from the wrong version. This version of the statute 10 11 doesn't apply to the patent at issue in this 12 case. 13 Okay. All right. MR. KREMEN: 14 Are you familiar with the written description 0 15 requirement of 112? Because you quoted 112 here, 16 are you familiar with the written description 17 requirement? 18 Yes, I am. Α 19 Isn't it true that the written description 0 20 requirement of Section 112A only requires that a 21 person of ordinary skill in the art will be able 22 to make and use the invention? 23 MS. PETERSON: Objection. 24 As I stated in paragraph 46 of my expert report, Α

Page 50 the written description requirement, objectively 1 2 demonstrate a person of skill in the art that the 3 patent applicant actually invented or possessed the full scope of the claim. 4 5 That's the written description requirement, 0 according to you? 6 7 That's the -- based on my understanding of the Α written description requirement is that it 8 9 requires that the applicant possessed, or had in 10 possession, based on the full scope of the claim. 11 Isn't it true that the enablement requirement of 0 12 112 applies only to the written description and 13 not to the claims? 14 Objection. MS. PETERSON: 15 Α The enable requirement also would be applied 16 too based on the fact that undue experimentation 17 was necessary by a person of skill in the art to 18 enable the claim -- the full scope of the claim. But it's the written description that it pertains 19 0 20 to, not to the claims. 21 MS. PETERSON: Objection, ambiguous. Well, I review the patent claims and then I 22 Α 23 review the specification in my analysis to see 2.4 where I can find support in the patent for both

Page 51 1 written description and enablement. 2 Have you ever read 35 USC 112? 0 3 Α I'm familiar with it. That's the code or section 112 is what I'm applying for all of the analysis 4 that I've done for invalidity. 5 6 So you're applying to the first paragraph in 112 Q 7 as far as -- because the second paragraph of 112 says nothing about person of skills of the art 8 9 being able to make them and use the invention. 10 It's only in the first paragraph. 11 MS. PETERSON: Objection. 12 Α Well, I'm applying based on my understanding and 13 what I've been provided by counsel in terms of 14 the standards, I'm applying those standards in my 15 analysis. 16 0 Do you have a copy of the standards that you've 17 been provided by counsel? 18 Α I have provided that information in my expert 19 report. When counsel gave it to you, how was it 20 0 21 communicated? We discussed the standards, and then 22 Α 23 subsequently, I applied those standards in my 2.4 analysis.

Page 52 1 It was verbal? 0 2 Α I'm not sure exactly, you know, the specifics of 3 the transmission. Initially, it was verbal discussion and then, of course, it came in the 4 5 report. So were you given a document with the standard? 6 Q No, I have not seen the document. I discussed 7 Α the standards and I certainly opined on many 8 other cases as specifically related to both the 9 10 obviousness and non-obviousness analysis as well 11 as the 112 written description enablement and 12 definite analysis. 13 So you don't know at this point, am I correct, 0 14 that you don't know whether section 112 requires 15 that test results that would demonstrate to a 16 person skilled in the art that there's a 17 substantial likelihood that the claim will 18 eventually work, at this point you don't know 19 whether 112 provides that; am I correct? 20 MS. PETERSON: Objection. 21 Α Well, what I know is that for written 22 description, the applicants of the patent should have sufficient disclosure, sufficient 2.3 2.4 description in the patent, to inform a person or

Page 53 1 skill that they were in possession of the full 2 scope. 3 Q Okay. But does that demand testing? 4 MS. PETERSON: Objection. 5 Α Well, it demands the fact that there's enough 6 description in the patent, enough disclosure, 7 that the person of skill can understand that the patentee possess the full scope. 8 9 0 That's not what I asked. Does it require 10 testing? 11 MS. PETERSON: Objection. Again, I'm not saying that there has to be a 12 Α 13 specific testing, but what I'm saying is that 14 there has to be sufficient disclosure in the 15 patent for a person of skill to know that the 16 patentee had full scope -- had possessed the full 17 scope of the claims. 18 Regarding patent claiming invalidity, do 0 19 you understand the difference between claim 20 anticipation on the 35 USC Section 102 and 21 obviousness under Section 103? 22 MS. PETERSON: Objection. I understand the differences between based on the 23 2.4 analysis that I've done in this case related to

Page 54 1 the 802 patent. 2 So you do understand the difference between 0 3 anticipation and obviousness then? MS. PETERSON: Objection. 4 5 Α Again, in the context of when I'm looking at it 6 as a technical expert. 7 Now, wouldn't you agree that for a claim to be 0 anticipated, a single prior art reference must 8 9 encompass every element in that claim? 10 MS. PETERSON: Objection. 11 Yes. That's the standards that you apply for Α 12 anticipation. 13 Wouldn't you also agree that for a claim to be 0 14 obvious over prior art, in Section 103, a 15 combination of prior art references must be used 16 to encompass every element of the claim? 17 MS. PETERSON: Objection. 18 Α That's my understanding. And again, for 19 obviousness analysis, the prior art can be 20 combined in order to then come to all the 21 elements of the claim. So the combination must produce all the elements 22 0 of the claim? 23 2.4 MS. PETERSON: Objection.

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Must provide evidence to a person of skill in the art with reasonable expectation of success.

And that is a difference between anticipation requiring a single reference that's going to do everything and a combination of references, which in other words, anticipation is all done with one — am I correct in terms of your understanding that anticipation requires only once a single reference and obviousness requires a combination

A That's generally where -- and that's the analysis that I've done, that for a claim to be invalid, it is anticipated by a single item of prior art.

of references; is that your understanding?

- Q Okay. So you would agree that if a single prior art reference does not encompass every element of the claim, that claim cannot be invalid over that single prior art reference alone; am I correct?

 MS. PETERSON: Objection.
- A Only under the anticipation argument, but it can certainly be invalid based on the obviousness argument.
- O How?

2.4

Α

- MS. PETERSON: Objection.
 - A Again, if that prior art is combined with other

Page 56 prior art in order to arrive --1 2 But -- okay. You just previously said that in 0 3 order to anticipate something, you have to have a single reference that encompasses all the 4 5 elements of the claim. If it doesn't encompass all of the elements of the claim, can it be used 6 7 alone to invalidate the claim? Objection. 8 MS. PETERSON: 9 Α Again, if it is single prior art document, and 10 the argument is only anticipation, it cannot, but 11 if that single document is combined with other documents, then certainly claims could be 12 13 obvious. 14 But it's not combined with other documents, and 15 it doesn't encompass all the elements of the 16 claim, can it be used alone without any 17 combination, can it be used alone just to 18 invalidate a patent? 19 MS. PETERSON: Objection. Not alone. If it doesn't meet all the claim 20 Α 21 elements, it has to --22 0 Okay. 23 Α You have to have all the claim elements met. 24 Good, okay. That's -- I just wanted to Q

Page 57 1 understand what you were looking at. 2 Now, isn't it true, that if for some 3 reason it's impossible to combine two or more references, the combination of those references 4 cannot render a claim invalid? 5 MS. PETERSON: Objection. 6 7 I'm not sure what that means to not be able to Α combine. 8 9 0 Well, there are certain things that can't be 10 combined no matter what you're doing. Well, let 11 me ask you, hypothetically, if a claim has 12 elements A and B, and you have one reference that 13 has A and the second reference that has B, is it 14 always possible to combine the two references to 15 produce the claim? 16 MS. PETERSON: Objection. 17 Α Again, from a person of skill in the art 18 reviewing the patent, the analysis that is done 19 in these types of cases is I would look at the expectation of success. 20 21 I don't understand. Could you clarify that, 22 please? 23 So in order to understand the analysis, I would Α 24 basically look at the claim language in my case

Page 58 1 and for the 802 patent, look at the specification 2 and what the specification teaches, and then see 3 if back in the priority date, what was the general knowledge in the field and what was the 4 available references that teach towards what the 5 person of skill would know. 6 7 Isn't a true that you have to have specific Q references to be able to invalidate a patent 8 9 under 102 and 103, which is the prior art 10 statutes? 11 MS. PETERSON: Objection to form. 12 Q I'm sorry, I'll rephrase. Isn't it true that for 13 anticipation or obviousness, you must have 14 specific references, specific prior art 15 references, to be able to invalidate it? 16 MS. PETERSON: Objection. 17 Α Yes. 18 MS. PETERSON: Stan, we've been going like an hour, over an hour. 19 20 MR. KREMEN: Do you want to take a 21 break? Okay. 22 (Brief Recess) 23 BY MR. KREMEN: 2.4 Now, isn't it true that if a prior art reference Q

Page 59 1 is not enabled, it can't be used to anticipate a 2 claim? 3 MS. PETERSON: Objection. I'm not sure I understand the question. 4 Α 5 prior art reference itself is not enabled? 6 In other words, not necessarily an issue Q 7 patent is anything. If the prior art reference is not enabled, you can't figure out how to make 8 9 it, use it, or whatever, if it's not enabled, it 10 can't be used as a reference to anticipate a 11 claim? Objection. 12 MS. PETERSON: 13 Again, when I reviewed all the prior art that Α 14 I've relied on for my opinions in this case, I 15 found the inventions to be enabled. 16 0 Okay. So you actually found all of the prior art 17 in this case that you use to be enabled, correct? 18 Α Based on my understanding of the enablement 19 standards that have applied in this case. So in other words, on each of the prior art 20 0 21 references that you looked at, that a person of ordinary skill in the art would be able to make 22 23 and use that invention; is that correct? 2.4 MS. PETERSON: Objection.

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- A Again, based on what I've looked at as far as my obviousness analysis of the 802 patent claims, in the review of the prior art documents that I've relied on in order to tell a person of skill in the art what the claims of the 802 patent are specifically addressing, I found those documents to be valid.
- Q Was any prior art given to you by counsel or did you find it all on your own?
- A I believe we discussed, and maybe the documents were provided, I didn't go out and search specific documents, but I did discuss with counsel the specific matter itself that are taught on this prior art, and obviously the opinions that I'm providing are all mine.
- Q So did you find any of the prior art on your own?
- 17 A I may have. For example, the Wahi 488 and 481, I
 18 may have seen them before.
- 19 | O What about Wadstrom?
- 20 A Wadstrom, also I've seen them before.
- 21 | O And Rolf?
- 22 | A Yes.

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- 23 | Q And where did you se those before?
- 24 A I saw it as an expert on a prior matter between

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Page 61 1 Trutek and Matrix. 2 Did counsel give you any of those references, the 0 3 prior art references? MS. PETERSON: Objection. 4 5 Α The documents itself, maybe, you know, maybe 6 provided by counsel through an email, but all the 7 opinions that I'm providing are mine. I reviewed those prior art myself. 8 9 0 But the documents would have been provided to you 10 by counsel? 11 MS. PETERSON: Objection. 12 Α Yes, some of the documents, certainly. I didn't 13 go out and search for every one of them. 14 Did you run any search yourself for prior art? 15 Α I don't recall searching specifically, but I do 16 recall looking at the documents and looking at 17 data to patent and being able to do the analysis. 18 The analysis is all mine and the opinions are all 19 mine. Now, you've expressed some of these opinions 20 0 21 before in another case; am I correct? Sorry. Which other case? 22 Α 23 (Indiscernible) case. 0 2.4 Α Yes.

Page 62 1 Did you use some of the same prior art in this 0 2 case as you used in the Matrix case? 3 Α Some of them, yes, but they're also few additional ones that are here. For example, 4 5 Baker patents, as well as Rabe, Katz, those were not -- we did not use that in the Matrix case. 6 7 Did you find those yourself or did counsel 0 provide them to you? 8 9 Α Again, based on the information that -- the 10 documents were provided, but I reviewed the 11 documents myself and opinions that I provide in 12 my report are all mine. 13 Did you search for any of those yourself? 0 14 No, I did not search for them myself. 15 In terms of the Baker patents -- well, first of 16 all, in terms of the other patents, the Wadstrom 17 patent, Rolf, and the ones you used in the Matrix 18 case, did you search for them yourself or were 19 they given to you? For this case or the Matrix? 20 Α 21 Q The other case. Again, I think that we, you know, for that 22 Α 23 counsel and I had discussions and some of those 24 documents were provided to me.

Page 63 1 Okay. And the Baker patents were provided to you 0 in this case during the discussion with counsel? 2 3 MS. PETERSON: Objection. 4 Α Yes. Again, I didn't go out and actually download the files. 5 Okay. Did you know about them beforehand, the 6 Q 7 Baker patents? Α Yes. 8 9 0 You knew about the Baker patents, how did you 10 know about them? 11 So I am familiar with the Nano motion technology Α based on the fact that Dr. Baker was a professor 12 13 at University of Michigan and he and I, we were 14 part of the Alliance for Nano technology in 15 cancer. 16 Q That's very interesting. My compliments on that. 17 Okay. Now, you also generated a report. Let's 18 see, this is Exhibit Number 6, which is a Responsive Report of Mansoor M. Amiji, Ph.D. on 19 20 Non-Infringement. You also generated this report 21 with your opinions at BlueWillow NanoBio Protect 22 product does not infringe the claims of the 802 23 patent; is that correct? 24 Yes, it does. Α

Page 64 1 Okay. Does this report contains all of your 0 2 opinions supporting BlueWillow's allegations that 3 its NanoBio Protect products do not infringe the claims of the 802 patent? 4 5 Α It has all the opinions as of today, but as I said before, if there's anything new that the 6 7 plaintiff's experts are able to provide, then I'll need to submit another report or we'll have 8 9 rebuttal opinions. 10 Q As of today, from what I understand, all of the 11 reports had been submitted because there was a deadline of September 29th. As of today, all of 12 13 the opinions that are rebutting any of the 14 reports or anything, you completely put your 15 opinions in all of your reports; am I correct? 16 MS. PETERSON: Objection. 17 Α Yes, as of today. 18 As of today, okay. Now, on pages 14 through 18 0 of this report, you criticize the testing of 19 electrostatic charge by Dr. Alexei Ermakov and 20 21 Shane Burns as long as Dr. Lemmo's -- and also 22 Dr. Lemmo's reliance on these reports; is that 23 true? 2.4 Yes, I do. Α

Page 65 1 Paragraph 39 of page 15, you wrote, "A person of 0 2 ordinary skill in the art reviewing the Ermakov 3 and Burns testing would not understand the test results to establish that NanoBio Protect 4 5 satisfies the claim limitations and/or infringes the asserted claims of the 802 patent." 6 7 You wrote that, yes? Yes, I did. 8 Α 9 0 Could you explain that, please? 10 Α Well, first of all, the tests that both Dr. Ermakov and Mr. Burns did are not described 11 12 in the patent. Second, these tests do not 13 provide any evidence as to the fact that the 14 NanoBio Protect product satisfies all of the 15 claim limitations. 16 0 Specifically, what is your objection -- what did 17 Dr. Ermakov and Mr. Burns testing show? 18 MS. PETERSON: Objection. 19 I'm not even sure what they -- it's a test. Both Α 20 of them just concocted a test. 21 Did you understand their test methodology? Q 22 MS. PETERSON: Objection. 23 I understand what they did, but I don't Α 24 understand how -- whatever data that they

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		Page 66
1		obtained could be applied to the claims of data
2		to
3	Q	What did they do?
4	A	Well, Dr. Ermakov took a piece of paper and
5		sprayed the composition and then measured
6		conductivity.
7	A	That is your understanding of what he did?
8		MS. PETERSON: Objection.
9	A	That is what's in his report.
10	Q	What did Mr. Burns do?
11	A	Well, Mr. Burns took a dry piece of pigskin and
12		again, sprayed some compositions and measured
13		conductivity.
14	Q	How did he measure that?
15	A	He used a Faraday cup.
16	Q	What does a Faraday cup measure?
17	A	Again, it basically allows you to pass current
18		through a material and see if the current can
19		pass through and use an equation to come up with
20		some charge value.
21	Q	And what is that equation?
22	A	It's in his report. I mean
23	Q	Are you familiar with the general technology?
24	A	I'm familiar with what they did, but it's nothing

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Page 67 to do with the teaching of data too or --1 2 That's not what --0 3 Α -- the infringement analysis. That's not what I'm asking. I'm asking are you 4 0 5 familiar with the technology? I am familiar with what they did in terms of 6 Α 7 measuring conductivity, yes. How would you measure electrostatic charge on a 8 0 9 surface? 10 MS. PETERSON: Objection. 11 Well, it depends on what type of surface. Α 12 first of all, it has to be relevant to the 13 teaching of the patent in suit. 14 Pick a particular surface that you think is 15 relevant, how would you measure the electrostatic 16 charge? 17 MS. PETERSON: Objection. 18 Well, you know, one way that we do in our lab is Α what's called a zeta potential measurement, which 19 looks at the surface charge of a particle and 20 21 gives you actually millivolts of charge. 22 0 So essentially what you're doing is you're 23 measuring voltage in this particular case, not 2.4 number of coulombs; am I right?

Page 68 1 Α We can measure specifically the charge on the 2 surface of a particle with the instrument that we 3 have. But again, it's contact specific. We are looking at it in the form of a particle. Here, 4 5 you're talking about surfaces. What is the cationic agent? 6 Q 7 A cationic agent would be one where it could Α either be permanently charged, or it could be 8 9 charged depending on the pH of the solution, but 10 the charge will be positive. 11 So it's a chemical substance that exhibits 0 12 a positive charge; is that correct? 13 MS. PETERSON: Objection. 14 Under different conditions, yes. 15 0 Well, what conditions would it not exhibit a 16 positive charge? 17 Α Well, if the pH is such that the charge is 18 neutralized, or it's not in water. 19 Cationic agents have to be in water in order to Q 20 be effective, correct? 21 MS. PETERSON: Objection. They have to have some presence of moisture or 22 Α 23 water around it to be able to exert the charge. 2.4 Isn't it true that benzalkonium chloride is a Q

Page 69 1 cationic agent? 2 Α Benzalkonium chloride is a cationic, yes. NanoBio Protect contains benzalkonium chloride, 3 0 4 right? 5 Α It has .13 percent of benzalkonium chloride, yes. And you're aware that BlueWillow claims on its 6 Q 7 website that NanoBio Protect exhibits an electrostatic charge? 8 9 MS. PETERSON: Objection. 10 Α Well, the website information is certainly not a 11 scientific, it's just a promotional material. 12 does say on the website that their product has 13 electrostatic charge based on the benzalkonium 14 chloride. 15 So if BlueWillow claims that their product has an 16 electrostatic charge, do you doubt their claim? 17 MS. PETERSON: Objection. 18 No, I'm not doubting the claim, but it's a Α 19 promotional material. It's not a scientific 20 publication. It's not peer reviewed. 21 But it is in fact true, isn't it, that it does contain an electrostatic charge? 22 23 MS. PETERSON: Objection. 2.4 Α Again, BlueWillow product, based on my

Page 70 understanding, is a nanoemulsion and the charge 1 2 is on the surface of the oil droplet. So nano emulsions in themselves, whether they 3 0 contain benzalkonium chloride or not, are they 4 5 charged, the nano droplets? MS. PETERSON: Objection. 6 7 Again, it depends on how you make the Α nanoemulsion. 8 9 0 What prevents the nano droplets from coalescing 10 into a single -- what keeps them as droplets? 11 There a number of ways you can prevent the Α 12 aggregation or coalescence of the droplet. You 13 can prevent by what's called steric repulsion or 14 you can --15 I didn't catch that. 0 16 Α Steric repulsion. 17 Okay. 0 18 Or you can prevent by electrostatic repulsion. Α 19 What is steric repulsion? 0 In steric repulsion, you are putting on the 20 Α 21 surface of the droplet specific types of material that basically extend from the surface and keep 22 23 two droplets from aggregating or coming in short 2.4 distance of each other.

Page 71 1 Now, with the fact that nano droplets, or the 0 2 nanoemulsion, contains benzalkonium chloride, 3 this is electrostatic repulsion; am I right? MS. PETERSON: Objection. 4 5 Α Again, if the benzalkonium chloride is displayed 6 on the surface of the oil, then it will have 7 positive charge, the oil droplet will have positive charge. 8 9 0 So the product would have a positive 10 electrostatic charge because of the benzalkonium 11 chloride; true? Again, if the oil droplet is made in such a way 12 Α 13 that the benzalkonium chloride is exposed to the 14 surface, the nitrogen on that benzalkonium 15 chloride is accessible to water that surrounds 16 the oil, and subsequently, the pH and all the 17 other conditions as such, that the ammonium ion is ionized. 18 19 Okay. Now, isn't it true that germs are 0 20 negatively charged? 21 MS. PETERSON: Objection. 22 Α It depends on the germ. 23 Do you know of any that are positively charged? 0 2.4 Again, it depends on, you know, specific Α

Page 72 conditions in which some germs, I don't know, I 1 2 have to see which germs you are talking about. 3 Q Do you know of any germs, microorganisms, that are positively charged, any of them? 4 5 Α Well, they can acquire different types of charge depending on the environment that they're in. 6 7 you have a bacteria, for example, in solution of water, you could certainly have some of the ions 8 9 from that solution absorbable under the bacteria. 10 I don't know what you know mean by natural 11 organisms. 12 All right. I'm going to give you a copy of this Q 13 page. 14 15 (Whereupon, NanoBio Droplet Document, 16 was marked as Exhibit No. 10.) 17 18 I want you to assume for argument's sake at this 0 19 point, that this is a page that was taken as a 20 copy of from the BlueWillow website. And if you 21 look at the very bottom of the page, you'll 22 notice it says https://bluewillow.com/nanobio-2.3 protect and then there's a date given of February 2.4 7, 2021 at 4:40 p.m. So I'd like you to assume

Page 73 that this was taken from the BlueWillow website, 1 2 that is a true copy. 3 Α Okay. Now, would you look at item number one at the top 4 5 First of all, let's start at the of the page. beginning. Would you read the first paragraph on 6 7 that? Α The first paragraph of this Exhibit 10 says, "The 8 9 unique effectiveness of NanoBio Protects is 10 derived from BlueWillow's patented nano 11 technology. NanoBio Protect places the BZK 12 antiseptic on the surface of nano droplets, which 13 results in at least four key advantages." 14 Now, you realize that BZK is BlueWillow's 0 15 abbreviation for benzalkonium chloride; am I correct? You know that? 16 17 Α Yes. 18 Now, read the item number one. 0 19 "The nano droplets are attracted to germs by Α 20 electro-kinetic charge and present the BZK in 21 such a way to enable killing of germs on 22 contact." 23 Now, would you call that electrostatic 0 2.4 attraction?

		Page 74
1		MS. PETERSON: Objection.
2	A	Well, they use the term electro-kinetic charge,
3		but the attraction is, at least based on this
4		document, suggests that the germs attracted by
5		electrostatic charge.
6	Q	Now, read number two on that page.
7	A	"The droplets persist on skin for four or more
8		hours, enabling long lasting effectiveness."
9	Q	Now, what does that really mean?
10		MS. PETERSON: Objection.
11	A	To say that if you apply this to the skin, these
12		droplets will stay there for four hours or more.
13	Q	What form do they take?
14	A	The droplets?
15	Q	Yes, on the skin.
16		MS. PETERSON: Objection.
17	A	I don't know. I haven't really tested any of
18		these products to know what form they take.
19	Q	Well, any liquid, if a liquid sticks to your
20		skin, does it form a film on the skin?
21		MS. PETERSON: Objection to form.
22	A	Well, in this case, it's a nanoemulsion that
23		they're spraying on the skin. So it could easily
24		remain as individual droplets assuming if those

Page 75 droplets are well stabilized. 1 2 But the individual droplets, if they're sticking 0 3 to the skin, it forms a film; doesn't it? MS. PETERSON: Objection to form. 4 5 Α Well, if the droplets are stabilized to remain as 6 individual droplets, then they will basically 7 spread on the skin as droplets. Now, isn't it true that benzalkonium chloride is 8 0 9 also a biocide, right? 10 Α It's a biocide, specifically at concentrations 11 and as long as high concentrations are used, it 12 can induce by acidic effects. 13 Okay. You see the drawings on the page, on 0 14 Exhibit 10. Could you read inside the box, could 15 you read what it says there? 16 Α It says, "Droplets surround and kill germs via membrane disruption." 17 18 Okav. How does it do that? 0 19 MS. PETERSON: Objection to form. Well, again, I don't know exactly -- I have not 20 Α 21 analyzed any peer reviewed documents from NanoBio Protect to know the nature, but from this 22 23 diagram, it suggests that the nanoemulsion 2.4 droplets are able to sequester around the germ.

Page 76 So they hold it in place, they hold inside 1 0 2 the droplets then? 3 MS. PETERSON: Objection to form. Again, I'm just looking at this diagram, and what 4 Α 5 it's saying is that these nanoemulsion droplets are sticking to the, assuming this is a bacteria 6 7 that they're sticking to. What do you think the role of benzalkonium 8 0 9 chloride in terms of the ability to kill the 10 germs, what is the role of the benzalkonium 11 chloride? 12 Α Well, again, it depends how benzalkonium chloride 13 is surface exposed on these droplets, then it 14 will interact with the membrane of the bacteria 15 or virus, whatever that germ is. 16 0 Did you review the NanoBio Protect product itself 17 when you formed an opinion of non-infringement? 18 MS. PETERSON: Objection to form. 19 I reviewed whatever documents that I'm describing Α 20 in my expert reports, those are the documents I 21 have reviewed and specifically related to the 22 NanoBio Protect product. What documents related to the NanoBio Protect did 23 0 2.4 you review, specifically to the NanoBio Protect?

Page 77 I looked at the one of the applications that 1 2 NanoBio Protect had. I looked at some of the 3 documents that are provided with the Trutek 4 5 6 7 Is there anything on Exhibit 10 that is 0 inconsistent with your understanding of the 8 9 NanoBio Protect product? 10 MS. PETERSON: Objection to form. 11 Α This is -- again, this document is obtained from a website. It's not peer reviewed. I don't know 12 13 anything about the specifics of what they're describing, for example, which type of germ, how 14 15 much of the emulsion is put on, you know, what 16 was the nature. This is merely a promotional material. 17 18 But I specifically asked, is there anything on 0 this document that is inconsistent with your 19 20 understanding of the nature of NanoBio Protect? 21 MS. PETERSON: Objection to form. 22 Α Well, again, the document is just obtained from 23 the website. It's promotional. From what is in 24 the document, what was described in the document,

Page 78 I don't have any objections or specific concerns, but again, this is not describing anything related to the product itself, nor is it describing how much is used or does of benzalkonium chloride, et cetera.

Page 79 1 2 3 4 MS. PETERSON: Objection. And also, 5 just real quick before I forget, since we are 6 7 talking about confidential information now, I would like to designate the transcript as outside 8 9 counsel eyes only. 10 MR. KREMEN: Just that portion of it. 11 MS. PETERSON: Well, for right now. 12 don't know what else is going to come up. So for right now, I'd like the transcript designated 13 accordingly. 14 15 MR. KREMEN: Well, we will object to 16 that because we need to show that to certain 17 people. So we object to that. But I agree to 18 the discussion as to the composition that we just 19 discussed could maintain -- be confidential, but 20 other than that, I object to it. 21 Let's turn to the report on non-infringement, which is Exhibit 6. On pages 12 and 13, you 22 23 opine on the nature and qualifications of the 24 person having ordinary skill in the art.

Page 80 1 According to the applicable law, do you know what 2 such a person needs to be? 3 MS. PETERSON: Objection. You're asking specifically on Exhibit 6? 4 Α I mean, if you know. 5 0 I'm familiar with the application of a 6 Α Yes. 7 person of ordinary skill in the art, that person, he or she, is based on the subject matter of the 8 9 patent. Would the person -- it would be a 10 hypothetical person who at the time of the invention would be considered to have knowledge 11 12 and skills related to the art that's been taught 13 in that patent. 14 What is the difference between a person having 15 ordinary skill in the art and a person having 16 extraordinary skill in the art? 17 MS. PETERSON: Objection, vague. 18 Α I'm not --19 No speaking objections. MR. KREMEN: 20 That's not a speaking MS. PETERSON: 21 objection, Stan. I'm not familiar with some of the further detail. 22 Α 23 What I've done is apply, based on my 2.4 understanding of a person of ordinary skill in

Page 81 1 the art, he or she at the time of the invention, 2 based on the knowledge and skills that they would 3 have, their interpretation of the matter that starting this patent and patent in suit. But I 4 5 don't know about the difference between ordinary 6 versus expert. 7 You do admit that there is a difference between 0 someone having ordinary skill in the art and 8 9 someone having extraordinary skill in the art? 10 MS. PETERSON: Objection. 11 I've heard the term extraordinary skill in the Α art, but I don't know the details of what that 12 13 means. 14 Would a person having extraordinary skill of the 15 art also be qualified as one having ordinary 16 skill? 17 MS. PETERSON: Objection. 18 Again, I don't know what the definition is. Ι Α 19 applied -- my analysis is done based on my 20 knowledge of a person of ordinary skill in the 21 art. 22 0 Okay. Do you consider yourself a person or 23 ordinary skill or somebody with extraordinary 2.4 skill?

Page 82 1 Objection to form. MS. PETERSON: 2 Α Based on my definition of a person of ordinary skill in the art, and based on the priority date 3 of this patent, I would consider myself a person 4 5 of ordinary skill in the art. You at this point are a person of ordinary skill? 6 Q 7 MS. PETERSON: Objection. Based on the definition that I'm providing. 8 Α 9 0 Regarding the inventions claims recited in 10 claims 1, 2, 6 and 7 of the 802 patent, in what 11 business or profession would a person of ordinary skill be engaged? 12 13 Objection to form. MS. PETERSON: 14 Well, the claims are directed towards the 15 pharmaceutical formulation and their ability to 16 electrostatically attract and inhibit or hold the 17 particle and then inactivate those particles in 18 such this would be a composition where it would 19 be a pharmaceutical formulator. Pharmaceutical formulator, okay. Now, what would 20 0 21 be the tasks that such a person would be able to 22 perform? 23 MS. PETERSON: Objection, vaque. Well, 2.4 Α based on the claim and the limitations, so

Page 83 claim 1, as we discussed, is a method claim. 1 2 Claim 2 is a formulation claim. So the person 3 would be able to formulate a composition and obviously then be able to test it to show that it 4 meets all of the claim limitation. 5 Is this person of ordinary skill typically an 6 Q 7 inventor? MS. PETERSON: Objection. 8 9 Α It's a hypothetical person. I don't know if 10 inventor is considered to be a person of skill in 11 the art or not. I don't know that specifically. But I know that from a perspective of analysis of 12 13 invalidity and specifically related to data to 14 claims I applied, the definition that I provide 15 on paragraph 35 of my expert report. 16 0 Okay. So you would agree that a person of 17 ordinary skill in the art is a person who 18 typically formulates chemical or pharmaceutical 19 compounds, right? 20 MS. PETERSON: Objection to form. 21 Α What I'm saying specifically in the context of the 802 patent and the claims, it's somebody 22 2.3 who formulates but also has the knowledge and 2.4 skills to be able to make sure that it meets the

Page 84 claim limitations, which go beyond just 1 2 formulation. 3 Q Now, on page one of your CV, it says that you're a registered pharmacist. Can a registered 4 5 pharmacist formulate pharmaceutical compounds? 6 MS. PETERSON: Objection. 7 Again, it depends on practice of that registered Α pharmacist. Some pharmacists compound 8 9 prescriptions. Would you know the nature of a cationic agent and 10 0 11 what it does? 12 MS. PETERSON: Objection to form. 13 Again, it depends on the person's, not just Α 14 education, but also experience. If they've been 15 working in with cationic agents and are familiar, 16 then they might not. 17 Okay. Would he know the nature of biocide or Q 18 biocidic agents and what it does? 19 MS. PETERSON: Objection to form. 20 Again, depends on, you know, what type of Α 21 qualification and experiences they have. 22 they've worked with biocide and are familiar, 23 then they may know what the biocide does. 2.4 How about the same analysis of a thickener? Q

Page 85 Again, depends on, you know, what practice. 1 Α 2 pharmacist working in a retail store, if they're 3 compounding, they may know what a thickener does. What about a binder? 4 Q 5 Α Again, depends on what type of binder. If it's a 6 binder that's using tablets, for example, retail 7 pharmacists do not make tablets. But they know what it is, they know what it does, 8 0 9 right? 10 MS. PETERSON: Objection. 11 They're in school of pharmacy. We teach Α them what a binder does. 12 13 What about a surfactant? 0 14 MS. PETERSON: Objection. 15 Α Again, you know, pharmacists do learn about surfactants too. 16 17 Q Would a registered pharmacist be considered a 18 person of extraordinary skill in the art or 19 ordinary skill in the art? Let me rephrase that. 20 Would a registered pharmacist considered to be a 21 person of extraordinary skill in the art? 22 Objection to form. MS. PETERSON: 23 Again, as I just testified before, I don't know 2.4 the definition of an extraordinary skill in the

Page 86 1 My analysis in the context of invalidity of 2 the 802 patents are based on what I know as a 3 person of ordinary skill in the art. So a registered pharmacist would be considered as 4 Q 5 a person of ordinary skill in the art, right? MS. PETERSON: Objection to form. 6 7 Again, I define it -- I give a certain definition Α of person or ordinary skill in the art as someone 8 9 with a master's degree in chemical engineering, pharmaceutical sciences and years of experience 10 11 in pharmaceutical formulation. 12 Q Okay. How many years of experience should such a 13 person of ordinary skill have? 14 It varies with the type of experience also. 15 they are making formulations for topical use, 16 they may have a few years. But if they are 17 somebody who is involved in other practices, they 18 may need a little bit more experience. 19 So give me some sort of a figure of how many Q years of experience you would consider a person 20 21 of ordinary skill in the art to have? 22 Α Again, it depends on their expertise and what 23 they do in their regular lives. If they are 2.4 actually making topical products, then they may

Page 87 1 have -- they don't need a lot of experience because they have that level of skill and they 2 3 may even be trained in those level of skills --Now, could experience -- is it possible that 4 Q 5 experience could substitute for education? other words, if they don't have an advanced 6 7 degree, but have a lot of experience, would that also be -- would a person of ordinary skill, 8 9 would that person also be a person of ordinary 10 skill? 11 MS. PETERSON: Objection to form. 12 Α Not in my opinion because I see a person of 13 ordinary skill in the art having the foundation 14 knowledge and also being able to then evaluate if 15 the product is going to function the way it is 16 taught in the 802 patent. So to me, both 17 education and experience matter. 18 Supposing that somebody who never went to high 0 19 school or college, but has been working in the 20 field for let's say 30 years, would that person 21 be, as a formulator, would that person be a 22 person with ordinary skill? 23 MS. PETERSON: Objection. 2.4 In my opinion, that person, if they're given a Α

Page 88 1 recipe, they can certainly make products. 2 what they won't know is different ingredients 3 perform differently, what is the right composition to make, how would this composition 4 5 actually work both as a safe and effective product. 6 7 What if they've already done something like? 0 MS. PETERSON: Objection. 8 9 Α Yeah, I mean, again, these are all hypotheticals. 10 You know, individual experience and individual 11 qualifications would certainly be what I would review, But in the context of the analysis that I 12 13 have done, you know, I define a person of 14 ordinary skill as having these qualifications and 15 experiences. 16 0 Okay. Now, one of the things you mentioned is 17 that the person should have a degree in chemical engineering, right? 18 19 MS. PETERSON: Objection. Like a master's degree in chemical engineering. 20 0 21 That's in your report, right? 22 Α Yes. 23 That was your opinion. What specifically in 0 24 chemical engineering curriculum is necessary,

Page 89 1 what qualifications would be necessary for such a 2 person to have? 3 MS. PETERSON: Objection. In the context of the 802 patent, specifically, 4 Α 5 and the claims, a person with a chemical engineering would understand, for example, the 6 7 issues of rheology. When you're developing a formula, how thick or thin that formulation 8 9 should be, how can it be applied. They will also 10 have a good understanding of compatibility 11 between various types of chemicals that are mixed 12 together. Many of the chemical engineering 13 students, especially in schools like Northeastern 14 where I teach, are also interested in 15 understanding some of the pharmaceutical 16 applications. So they will also know that these 17 are not just products that are made, but they're 18 made for actual human beings. 19 What is the difference between someone who is a O chemical engineer and a chemist? 20 21 MS. PETERSON: Objection. One is an engineer. The other is a scientist. 22 Α 23 Right, okay. But what is the difference in what 0 2.4 they do?

Page 90 1 Objection. MS. PETERSON: 2. Α Again, engineers solve problems based on the definition. The scientist would understand the 3 4 problem and then engineers come up with solutions. 5 Doesn't a chemical engineer concern himself with 6 Q 7 production aspects, how to make a product able to 8 be manufactured as opposed to someone who creates 9 a product from scratch? 10 MS. PETERSON: Objection. I think that's not true, not in my opinion. 11 Α 12 Q Why do you say that a person who doesn't 13 have a master's degree in chemical engineering 14 cannot be a person of ordinary skill in the art? 15 Α What I'm saying is it at least a master's 16 degree in chemical engineering or pharmaceutical 17 science or related fields. I'm not excluding 18 anyone. Q So you would be defining a person of, 19 when you say at least, a person of 20 ordinary skill in the art should have a 2.1 Ph.D. then? 2.2 MS. PETERSON: Objection. 23 I say anyone with a master's degree, because 24 with master's degree they would have the

Page 91 1 requisite knowledge of not just the formulation 2 and development, but actual characterization and 3 application that are a part of these claims I 4 interpret. 5 A person without that education would not have 0 the ability to do that kind of formulation; is 6 7 that correct? Α Well, somebody without having the knowledge of 8 9 what exact ingredients that are necessary as well 10 as being able to mix them in the right proportion 11 and in the right process, and to come up with a 12 composition that actually meets all of the claim 13 limitations, you need both education and 14 experience. 15 0 So would you say that a person of ordinary skill would be able to do that? 16 17 MS. PETERSON: Objection. 18 I applied, based on the definition that I'm Α 19 providing, I applied that particular definition for a person of skill in view of the prior art in 20 21 terms of my analysis. 22 0 What about a person who has no education, no 23 formal education beyond a certain level, but has 2.4 been doing those kinds of things for 30 years,

Page 92 1 would that person qualify as a person of ordinary 2 skill? 3 MS. PETERSON: Objection. Not in my definition. But again, the plaintiff 4 Α 5 definition is much more lower for person of skill in the art, but my definition is they need the 6 7 education and they have to have experience because the claims are not just making a product. 8 9 They're directed towards a product that 10 ultimately has certain features and will function 11 in the way that are taught in the claim. 12 Q What about being able to duplicate the examples 13 that are shown in the 802 patent? 14 There are no examples in the 802 patent. 15 There are not? 0 16 Α No. Okay. We'll get to that afterwards. Talk about 17 0 18 the education, what type of courses would this 19 kind of person with ordinary skill have taken? 20 MS. PETERSON: Objection. 21 Α Again, depends on which school they went to. Some schools have -- different schools have 22 23 different courses that they offer their students. 2.4 What types of chemistry courses are necessary? Q

		Page 93
1		MS. PETERSON: Objection.
2	A	General organic chemistry. They may even take
3		biochemistry.
4	Q	Are these courses ever offered on an
5		undergraduate level?
6		MS. PETERSON: Objection.
7	A	A different levels.
8	Q	Are they would they be offered on an
9		undergraduate level?
10	A	At a much lower level, yes.
11	Q	Would this person of ordinary skill have taken
12		physics courses?
13	A	Again, depends on the school and their
14		curriculum.
15	Q	How advanced would the physics courses need to
16		be?
17		MS. PETERSON: Objection.
18	A	I can't speak to what courses are taught in which
19		school. It's a complete hypothetical.
20	Q	Well, doesn't a first or second semester graduate
21		course first or second semester undergraduate
22		course in physics teach electrostatics
23		MS. PETERSON: Objection.
24	Q	that opposite charges attract and light

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Page 94 charges repel? 1 2 Α No, electrostatics are well known to 3 students, but this is not just about electrostatic. The patent and the claims are 4 5 directed towards creating a composition that ultimately inhibits infection. If you look at 6 7 the specification of the patent, it talks about stopping anthrax. 8 9 0 Okay. What would you call a person who has not 10 the level of education that you indicated, but 11 that has been making those kinds of -- working on 12 that kind of formulation for 30 years, what would 13 you call that person? Would you call that person 14 of ordinary skill? 15 MS. PETERSON: Objection. 16 Α Again, I don't know exactly what, you know, that 17 hypothetical person has done as far as education 18 or what type of field they're working on, what 19 experience they have. So until I see the

hypothetical person has done as far as education or what type of field they're working on, what experience they have. So until I see the qualifications and experience, I can't really tell. But what I'm opining on is a person of skill based on the qualification and experiences in my report.

Q All right. You do realize that a person of

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Page 95 1 ordinary skill in the art is a hypothetical 2 person; don't you? 3 Α Yes. So we're dealing with a hypothetical person over 4 5 here, and you're telling me that you don't know what characteristics that a hypothetical person 6 7 would have to have. In other words, whether it would be experience or education. Can you have 8 9 experience without the education? 10 MS. PETERSON: Objection to form. 11 Asked and answered. 12 Α Again, this is my definition that I'm applying in 13 my opinion. I think, you know, the plaintiffs 14 have made their definition. At one point, as we 15 move towards this litigation, the court will 16 decide which one to adopt. 17 Q What is your basis for making that decision, that 18 definition? 19 Well, based on my review of the patent and what Α the patent is teaching, I believe the patent is 20 21 not just teaching towards a composition. teaching towards a utility, and this utility 22 2.3 involves applications to prevent infection. 2.4 person of skill has to have knowledge of what

Page 96 actually can prevent infection, like what can 1 2 stop anthrax, what can stop Coronavirus. 3 what the patent, the specification is teaching. But if he has experience in working on that time 4 O 5 of rheology, does he does need -- and he has experience of that, does he still need that level 6 of education? 7 Objection. 8 MS. PETERSON: 9 Α Again, they have to have some knowledge of both, 10 formulation, development, and application towards all of the different facets that are taught in 11 12 the patent. But suppose you have a person like that, who has 13 0 14 the experience with that, but not having the 15 education, would that person be a person of 16 ordinary skill? 17 And this is my definition. This is the Α 18 definition that I'm opining on, and this is the 19 definition that I use in my analysis. You know, if the court adopts a different definition, we 20 21 will address those issues then. But right now, 22 this is the definition I've applied. 23 Would a person of ordinary skill have taken 0 2.4 courses in biology?

Page 97 1 MS. PETERSON: Objection. 2 Α For students who are doing master's, 3 certainly they have taken courses in biology, both chemical engineering as well as 4 5 pharmaceutical sciences students. What are the minimum requirements of biology 6 Q 7 courses necessary for a person of ordinary skill to have taken under this -- for this test? 8 9 MS. PETERSON: Objection. 10 MR. ALTMAN: Liane, what's the nature 11 of your objection? 12 MS. PETERSON: Oh, so now you want me 13 to say that? 14 MR. ALTMAN: When I want it, I'll ask 15 So can you tell me what the nature of 16 the objection is? 17 MS. PETERSON: I think the question is 18 vague and ambiguous and I think it's an 19 incomplete hypothetical and I could keep going. 20 MR. ALTMAN: Okay. 21 Α I'm sorry, can you repeat the question? Okay. What are the minimum requirements of 22 0 2.3 biology courses necessary for a person of 2.4 ordinary skill to have under his belt?

Page 98 1 MS. PETERSON: Objection. 2 Α It varies with the curriculum of the school that 3 they go to. Typically, in a general biology one and two is what students do take, both at the 4 5 bachelors level, and then if they come to the master's program, they take some advanced biology 6 7 courses. Now, a person who -- would a person who has your 8 0 9 level of education, but does not have the skill 10 of doing pharmaceutical formulation, would that 11 person also be a person of ordinary skill? 12 Α My definition is that they will have several 13 years of experience. Once they have those 14 experiences, that's how they acquire a skill. 15 Now, when you say several, how many years? 0 16 Α As I said, it depends on, you know, the 17 qualification. If somebody has a Ph.D, they may 18 not need many years, but if they have a master's degree, they may need a little bit more. 19 Would they need ten years of experience? 20 0 21 Α Again, this is a hypothetical person and what I'm 22 relying on in my analysis is the definition that 23 I'm providing here. 24 Would they need more than one year experience? Q

Page 99 1 It depends on the individual and what they -- you 2 know, but I would say based on my analysis, I use 3 this definition of a person with a master's degree in chemical engineering or pharmaceutical 4 5 science or related field and several years of experience. 6 Okay. So it would be more than one year, right? 7 Q MS. PETERSON: Objection. 8 9 Α Again, based on my definition. 10 0 Is that yes? It depends on the degree of, you know, if it's at 11 Α 12 least a master's degree, but sometimes if they 13 have a Ph.D degree, then they may need a little 14 bit less. 15 0 But can it be less than one year, six months 16 maybe? 17 Α Could be. Again, depends on the person. Again, 18 this is the definition that I've applied in my 19 analysis. Could a person having a master's degree in 20 0 21 chemical engineering have no experience and still 22 be a person of ordinary skill? 23 MS. PETERSON: Objection. 2.4 Α My definition says with several years. No. So

Page 100 1 based on the definition, they would have to have 2 experience. some 3 Q Would you agree that the more experience a person has -- would you agree that the more relevant 4 5 experience a person has, the less education he would need? 6 7 Lesser than master's degree? I don't think so. Okay. So in other words -- okay. It is your 8 0 9 testimony that a person who does not have a 10 master's degree in chemical engineering does not 11 possess the necessary skills to be a person of 12 ordinary skill in the art? 13 MS. PETERSON: Objection to form. 14 As I said in my report, it's not just a 15 master's degree in chemical engineering, but also 16 pharmaceutical science or related fields. It's 17 not just excluding other disciplines. 18 Is it your testimony that a person who does not 0 19 have a master's degree in chemical engineering 20 cannot possess the same degree of knowledge as a 21 person who does have a master's degree in 22 chemical engineering? 23 Objection to form. MS. PETERSON: 2.4 Again, my opinion is that the master's degree Α

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Page 101 with the caliber of courses, as well as the fact that master's comes after the bachelors, and their experience in pharmaceutical formulation, are what I would consider to be the qualifications of a person of skill in the art. So your answer would be no to that question; am I Q right? Α I disagree with the characterization that somebody with either a less degree, less than a master's would really meet the level of qualifications for a person of skill in the art. Is it your testimony that a person who does not Q have a master's degree cannot possess the same level of knowledge as a person who has a master's degree? А I think that's not what I'm saying. I'm saying is that a person who when you're looking at the art that is taught in the 802 patent, based on the 802 specifications and claims, and looking at specifically the art, it

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is my opinion that the person has to have at

least a master's degree in chemical engineering,

pharmaceutical science or related field and has

to have experience in pharmaceutical formulation.

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- Q That's a non-responsive answer. Is it your testimony that a person who does not have a master's degree in chemical engineering could not have the same level of knowledge as a person who has a master's degree in chemical engineering?

 MS. PETERSON: Objection to form.
- A No. Again, that's not what I'm answering. What I'm saying is --
- Q Can you answer the question that I've asked?
- A Yes, I can answer the question, but my answer is that -- I'm saying not just master's degree in chemical engineering. It's master's degree in chemical engineering, pharmaceutical sciences or related field.
- Q I'm not asking you whether he's a person of ordinary skill in the art. I'm asking you specifically, does a person -- is it your testimony that a person who does not have a master's degree in chemical engineering can have the same level of knowledge as a person who has a master's degree in chemical engineering? Forget the 802 patent. Is it possible, or is it your testimony, that a person who does not have the degree in chemical engineering can have the same

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or possibly greater knowledge than a person who has a master's degree in chemical engineering?

MS. PETERSON: Objection to form.

- A Again, it's a hypothetical question. You know, if somebody doesn't have a degree, but has more experience, and in what area. Yes, they could certainly have experience in certain area and they will know how to do things in that area based on their experience. But what I'm reviewing is based on the context of the 802 patent.
- Q But I want the answer to that particular question. It's a non-responsive answer. I specifically want the answer to the question. Is it your testimony that a person who does not have a degree in chemical engineering cannot have the same level of knowledge as a person who has a degree in chemical engineering?

MS. PETERSON: Objection to form.

A Again, I think I've answered that question at least three times already. But it's context dependent. It depends on what context you're applying it to. A hypothetical person may have more experiences than educational requirement,

Page 104 but I'm looking at it in the context of --1 2 So then basically, it is possible that a 0 3 person -- okay. Is a person who is an expert, like yourself, one who is testifying as an 4 5 expert, a person of ordinary skill in the art? 6 MS. PETERSON: Objection to form. 7 Based on the definition that I'm providing, yes. Α I have at least a master's degree level education 8 9 in pharmaceutical sciences and I have many years 10 of experience. 11 That's for you. But any person who would be an 0 12 expert, who testifies as an expert, also be a 13 person who also has ordinary skill in the art? 14 Objection to form. MS. PETERSON: 15 Again, it depends on what the expertise is and Α 16 what they are --17 An expert in pharmaceutical formulation. Q 18 Again, depends on their definition of a person of Α 19 ordinary skill in the art. According to your definition? 20 0 21 Α Are you saying any expert would be qualified as a 22 person of skill in the art? 23 Of ordinary skill if they're an expert, an expert 0 24 accepted by the court?

Page 105 1 Objection to form. MS. PETERSON: 2 Α Again, I don't know what the court accepts or 3 doesn't accept. I know that based on my analysis, I meet the definition of a person of skill in the 4 5 art. Basically, I'm talking about knowledge now, just 6 Q 7 about knowledge. Would you agree that a person who does not possess a master's degree in 8 9 chemical engineering, could have the same or 10 possibly greater knowledge than a person who has 11 a master's degree in chemical engineering? 12 MS. PETERSON: Objection to form. 13 Again, depends on what knowledge you're talking Α 14 Some knowledge can be acquired through 15 experiences. Others -- there's also the 16 foundational knowledge comes from education. And that foundation of knowledge cannot be 17 Q 18 garnered through experience, can only be garnered 19 through education? 20 Α Again, depends. It's very subjective. 21 depends on what experiences that person has gone 22 through. 23 Stan, if you're at a MS. PETERSON: 2.4 good stopping point for this, is it a good time

Page 106 1 to take a break? 2 MR. KREMEN: Yes. 3 (Brief Recess) BY MR. KREMEN: 4 5 The rest of this deposition is going to be 0 concerned with, I believe, your marksmen report, 6 7 which is Exhibit 7, and the 802 patent, which is Exhibit 2. So that's what we're looking at. 8 9 Referring to your declaration marked 10 Mansoor M. Amiji, Ph.D is Support of blueWillow's 11 Claim Construction Brief as Exhibit 7. You 12 presented yourself as an expert in the field of 13 pharmaceutical sciences and drug formulation 14 development and characterization. Is this how 15 you're presenting expertise in this present 16 litigation? 17 That's what I mentioned in the Α 18 qualification and experience that I'm an expert 19 in the field of pharmaceutical sciences, and drug 20 formulation development and characterization. 21 0 Okay. You further state that specifically, "I 22 specialize in drug formation development and 2.3 targeted delivery of therapeutics, and I have 2.4 been an expert in this field since prior to July

Page 107 7, 2008." 1 2 Is that how you're presenting your 3 expertise in this present litigation? Α Yes. 4 Are there any writings submitted by you other 5 0 6 than the declaration in which express your 7 opinions on construction of the claims of the 802 patent? 8 9 MS. PETERSON: Objection to form. 10 Α I'm not sure I understand the question. 11 Is this the only writing that you have submitted 0 to in this case stating your opinions on claim 12 13 construction, which is an Exhibit 7? 14 Specifically in relation to claim construction? 15 0 Yes. 16 Α Yes. This is the declaration, right. 17 0 Now, if you would turn to page 13. Would you 18 read the first sentence in paragraph 33? If you 19 can do that aloud, I would appreciate it. 20 Page 13, paragraph 33? Α 21 0 Yes. 22 "While a person skilled in the art reading the Α 802 patent would understand that the 23 2.4 specification provides a laundry list of possible

Page 108 1 formulations, the patent specification does not 2 include any specific examples or test results for 3 any of the formulations demonstrating that they work by electrostatically attracting particulate 4 5 matter to a thin film applied to the nasal passages and holding the particulate matter in 6 7 place through adhesion to the thin film in order to electrostatically inhibit such harmful 8 9 particulate matter from infecting an individual." 10 0 What do you mean by a laundry list? 11 Well, the specification and the tables that are Α 12 provided in the patent lists all these different 13 ingredients. 14 Isn't it true that you're using the term laundry 15 list in an attempt to trivialize the ingredients of the formulations described in the 16 17 specification? 18 MS. PETERSON: Objection to form. 19 I'm just stating that the specification of Α 20 the 802 patent provides a list of ingredients. 21 0 A laundry list. It's trivializing it. 22 saying it's to be done with the wash. 23 MS. PETERSON: Objection to form. 2.4 Α What I'm saying is, you know, the 802 patent No.

Page 109 is providing a list of ingredients and the tables 1 2 provide these ranges but there is no examples. 3 Q Okay. Why did you use the word laundry? Again, it's just a list of ingredients and 4 Α 5 examples. That's what I usually refer to as a laundry list. 6 7 Do you understand what an embodiment is with 0 respect to patents? 8 9 MS. PETERSON: Objection to form. 10 Α I understand, generally, what an embodiment is, 11 but again, I don't know the exact legal 12 definition. 13 What do you understand it to be? 0 14 Embodiment is one of the examples that the Α 15 patentee would be describing that, one or more 16 examples, that ultimately when it comes to 17 understanding the claims, that a person of skill 18 would relay that example towards the actual 19 nature of the claim language. Is it true that patents list one or more 20 0 21 embodiments? 22 MS. PETERSON: Objection to form. 23 It varies from patent to patent. Some patents Α 2.4 list embodiments. Other patents, like the 802

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patent, doesn't have examples. It just simply lists all these different tables with ranges.

- Q We'll get into the 802 patent later. But doesn't the patent have to at least list one embodiment?
- A Again, I don't know the exact requirement, the legal requirement of a patent, but I understand the term embodiment to mean that it's a composition or, you know, whatever the patent claims are teaching towards there is some language in there that supports that the patentee had that particular composition or if there was a method of use patent and they actually were able to use that particular approach. And there's sufficient description in the patent.
- Q Isn't it a fact that there is no statutory requirement that patents must include test data or test results?

MS. PETERSON: Objection to form.

A Again, you know, for me, when I'm doing an analysis, I'm simply looking at what the patent you are providing. In my opinion, the patent doesn't, in written description, an enablement requirement, based on the fact that it doesn't -- the full scope of the claim is not met by what's

Page 111 in the patent. 1 2 So I take it that you don't know whether there is 0 3 a statutory requirement that a patent needs to have test results or test data? Either you know 4 5 it or you don't know it. I do know that you don't need specific tests 6 Α 7 and exact test results, but you do need to convince a person of skill in the art that you 8 9 were able to make a composition that ultimately met all the claim limitation. 10 11 Do you understand what a marksmen proceeding is? 0 12 Α Yes. 13 What is it? O 14 It's a proceeding in the court where certain 15 claim terms, if there is any ambiguity in the 16 definition of the claim terms, the court is 17 provided with the claim terms analysis by both 18 the plaintiff side and defendant side, and then 19 the court decides exactly how to interpret the 20 claim terms. 21 Q And you're aware that it's a legal determination, 22 not a fact determination of the claim terms, 23 right? 2.4 Again, I don't know exactly how the court Α

Page 112 determines the claim terms, but my understanding 1 2 is that that's what the marksmen hearing is, 3 provided declaration in support of marksmen. It's a report, not a jury or a fact finding that 4 Q 5 makes that determination; is that correct? You understand that? 6 7 That's been my experience so far. But I don't Α know exactly what the legal requirement is. 8 9 0 Now, you would agree that the lack of test 10 specific examples, data or test results, has 11 nothing to do with the meaning of the claim term, 12 the actual meaning of the words? 13 Well, for person of skill to understand the Α 14 meaning they have to see what the specification 15 is describing, and ultimately draw -- you know, 16 when you look at the actual claim language, you 17 don't find any support in the specification for 18 the 802 patent. 19 All right. One of the things which you mentioned Q when we began the deposition, is you mentioned 20 21 the Phillips standard and you discuss that in 22 your report. I don't remember which one. That 2.3 the first page we look at it is the plain

language of the claim. I think that that was

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Page 113 1 your opinion. I don't know if it was this report or the other one. MS. PETERSON: Is there somewhere where 4 you want to point him to? 5 MR. KREMEN: I don't remember. He did 6 testify to that. 7 I've seen that specific language related to Α 8 the Phillips. 9 0 So for example, if we're going to use the plain 10 language of the claims, do you have to have test 11 results or test data to determine what the plain 12 language means? 13 Objection to form. MS. PETERSON: 14 Again, in my opinion, and based on the 15 declaration that I provided for the claim 16 construction brief, the patent doesn't show to a 17 person of skill I the art, doesn't explicitly 18 describe any specific embodiment or any specific 19 examples that meets all the claim limitations. That's what I'm opining on in my report. 20 2.1 But in terms of the claim, don't the words mean 0 2.2 what they mean in English? Forgetting -- the 23 Phillips standard said you start out with plain 24 language of the claims. Don't these words have

Page 114 specific definitions, specific dictionary 1 2 definitions? 3 MS. PETERSON: Objection to form. If you just take the claim in isolation of the 4 Α 5 specification, then those definitions are, you know, what the plain language mean. But a person 6 7 of skill looks at the patent in total. Okay, good. So in other words -- so basically, 8 0 9 you start out with the plain language, okay, and 10 you can modify the plain language by, in fact, I 11 believe that the rule says that a person can be 12 his own lexicographer, which means he can find 13 define terms differently than the plain language. 14 It starts out with the plain language, but he can 15 then define terms differently. You're aware of 16 that, right? 17 Α Yes. Among the things that you could define terms 18 0 19 differently is you can have a glossary, okay. 20 I right, you can do that? You can do that. You 21 can say I know that as long as the meaning of the 22 term is not repugnant, it's ordinary meaning, you 23 can say, when I use this term, it means that; you

can do that, right?

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Page 115 1 Objection to form. MS. PETERSON: 2 Α Again, you know, that's maybe some, you know, 3 legal specific requirement. Again, as I 4 mentioned, I'm a technical expert, I don't know 5 the law related to --6 Q But you've written patents before in which you, 7 I'm sure you defined terms in certain ways; haven't you? 8 9 Α As I've mentioned before in my testimony, I have 10 worked with lawyers who helped me with the draft 11 of the claims and we worked together on the 12 specifications. 13 Is a specification mostly written by you or is it 0 14 written by the attorneys? 15 Α It's mixed. In some cases, some sections of the 16 specification I provide, especially if it's data 17 that we collected in the lab, and interpretation 18 of that data. Others the lawyers write. So in the absence of a glossary, okay, we start 19 Q out with a plain meaning of the word in the 20 21 dictionary definition, an we take a look and see 22 if the specification or anything else within the 2.3 patent description changes the meaning in any 2.4 way; is that correct?

Page 116 1 MS. PETERSON: Objection to form. 2 Α I'm not an expert in this area of, you know, what 3 is the actual definition for the claim language. What I'm doing is interpreting the claims in view 4 5 of the specification and providing my opinions in 6 my brief. 7 So essentially, you're interpreting the claims as 0 a technical expert, but not as a legal expert? 8 9 Α My declaration is specifically relates to a 10 person of skill in the art and how they would 11 interpret the claims. Yet, we know that in the marksmen hearing, the 12 Q 13 definition of claim terms is a legal 14 determination. So doesn't some legal knowledge 15 -- isn't some legal knowledge required to be able 16 to interpret the claims? 17 MS. PETERSON: Objection to form. 18 Again, whatever legal standards that I've Α 19 applied, I mention in my declaration. But what 20 I'm doing is to look at this in the context of a 21 person of skill in the art and my declaration is 22 in support of the construction brief from the 23 defendant's side.

Q Okay. So now the lack of test examples, or data,

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Page 117 or test results, really has nothing to do with 1 the meaning of the words in the claim; am I 2 3 right? But a person of skill would be looking at the 4 Α 5 claim and seeing what the claims is teaching and then they will look at the specification to see 6 7 what support there is. There is no support any of the elements of the claims in the 8 9 specification. 10 Q Let's look at some of this, okay. Have you ever 11 written any claims completely by yourself? 12 Α No, I have not. 13 Okay. Look at paragraph 32 on the previous page. 0 14 You state that the 802 patent includes 10 15 separate tables, each with numerous formulations 16 and compounds that are variable. 17 Α Yes, I see that. 18 By that, you mean that the percentage for each 0 19 ingredient is provided as a range of values; is 20 that correct? 21 Α Well, that's what the 10 tables have. They have 22 ranges of values. They have, in many instances, 23 specific ingredients and then they also have 2.4 different number of ingredient. And then as you

Page 118 looked at the claim, it's a comprising claim, 1 2 which means that it could also have other things 3 in there. I'm specifically looking at the 10 tables right 4 Q 5 now, okay. It's providing a percentage for each ingredient as a range of values; is that correct? 6 7 Yes, it is, and the ranges can go from anywhere. Α A case of water, for example, can go from 62 to 8 9 80 percent. 10 Q That's what a range is. Now, would you agree 11 that ranges are permitted for ingredient 12 percentages? 13 MS. PETERSON: Objection to form. 14 Permitted where? 15 In a patent specification. It doesn't have to be 0 16 an exact percentage; am I right? 17 Α Well, of course, they are, but again, when you're 18 developing a composition based on that range, how 19 would that meet the claim limitation? How would it electrostatically attract in particulate 20 21 matter? What level of electrostatic charge do 22 you need from all of those different ranges? 2.3 would it hold? How long would it hold? 2.4 kind of inactivation? What type of particle

Page 119 would it inactivate? Would it inactivate the 1 2 same level in anthrax or would it inactivate a 3 coronavirus? So isn't that a reason for it to be variable? 4 0 5 Α That's not -- how would a person of skill know from looking at these ranges which ones 6 7 would actually function the way the patent claims? 8 9 0 You're claiming that a formulator, a 10 pharmaceutical formulator would not -- that you, 11 as a person of ordinary skill in the art, that you would not be able to look at those examples 12 13 and develop a formulation using those ingredients 14 in the specific ranges, remember you can't go 15 beyond those ranges, developing those specific 16 ranges, to produce something that would have a 17 particular replication which is listed in the 18 patent? You would not know how to do that? 19 Not only me, nobody else would know. Α Because, again, it's all over the place. At the 20 21 end, you're looking at potentially applying to a human being and saying oh, see if anthrax, you're 22 2.3 going to be stopped from getting infected by 2.4 anthrax.

Page 120 Doesn't that take experimentation? Wouldn't the 1 0 2 formulator do some experimentation to make that 3 determination? That's the definition of undue experimentation, 4 Α 5 is how many experiments would you need to do with all these ranges, and which one of these 6 7 ingredients would you put in, which ones you can exclude. If it's a comprising claim, you could 8 9 even have more, and some of them may even 10 neutralize the charge. 11 So in other words, as long as the experimentation 0 12 is not undue, you could do some experimentation 13 with those ingredients, right? 14 Objection to form. MS. PETERSON: 15 Α Again, this is just a table that lists these 16 ingredients and ranges without any guidance to a 17 person which of these ranges are actually going 18 to be functional, and which one will ultimately 19 lead to a product that meets the claim 20 limitation. 21 So in words, you're saying that you got to have embodiments there with specific composition 22 23 percentages, right?

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No, that's not what I'm saying. I'm saying that

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even if you have these changes, at some point, you have to inform a person of skill in the art which product out of these ranges actually meet the claim limitation. These are just ranges of compositions without any guidance to a person of skill that they will meet the claim limitation.

- Q Okay. If the concentration of the ingredients were specific as opposed to variable, would that change the meaning of the claim term?
- A It wouldn't meet the concentration of being specific. The question is, you know, you still have to then ask would that actually lead to a thin film? Would it then meet all of the different elements of the claim? Would it electrostatically attract the particulate matter, which particulate, and for how long? Would it then hold the particulate matter? And then more importantly, would it inactivate?

So, you have to have certain level of description in there that supports these compositions that says this is how we would verify if we're meeting the claim limitations.

Q So you're saying that you cannot, so a patent cannot have a claim that is broader than what you

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Page 122 disclose? 1 2 MS. PETERSON: Objection to form. 3 Α A patent cannot have something that doesn't really tell a person of skill in the art that 4 5 there is actually a composition there. 6 Okay. You would agree that the terms Q 7 electrostatically attracting the particle to the thin film necessarily means that particulate 8 9 matter and thin film are oppositely charged, that 10 there's a force of attraction between them, yes? 11 Again, it depends on what particle and what force Α 12 is necessary to create that attraction. 13 I'm saying that the plain meaning of the term, 0 14 electrostatically attracting particle matter to 15 the thin film, what is the plain language meaning 16 of that expression? 17 Objection to form. MS. PETERSON: 18 Just means that there is some electrostatic Α 19 attraction between a particle and this thin film. So you understand what the concept of 20 Okay. 0 21 electrostatic attraction of particles with thin 22 film is; don't you? 23 Α Right. But again, when I look at the 2.4 specification, it could be any particle. Ιt

Page 123 1 doesn't even specifically one type of particle 2 and how that attraction occurs. You have a list 3 of different germs, different bacteria, viruses, you know, different allergens. 4 5 So if we're taking about a formulation that has a 0 cationic agent in it of sufficient concentration, 6 7 and we talk about harmful particles that are negatively charged, okay, then you would 8 9 understand the term electrostatic attraction 10 meaning that these unlike charges attract each 11 other; would you not? 12 MS. PETERSON: Objection to form. 13 I would understand it. It will just be Α 14 electrostatic interaction between negatively 15 charged particles and positively charged surface. 16 But when you look at the entirety of the claim, 17 it's not just attraction. It's holding, it's 18 inactivating. 19 Okay. We'll get to that. But certainly O electrostatic attraction, you understand what 20 that means, what the term means? 21 22 Α Yes, I understand what electrostatic attraction 23 means. 2.4 Okay, good. Q

		Page 124
1		(Whereupon, Action Summary, was marked
2		as Exhibit No. 11.)
3		
4	Q	Do you recognize this document?
5	A	Yes, I do.
6	Q	What is this?
7	A	This is, I believe, the prosecution the USPTO
8		providing the examination of the 802 patent in
9		providing a communication based on the
10		examination.
11	Q	You use this as an exhibit in your own report; am
12		I correct?
13	A	Yes, I believe I had used this as one of the
14		exhibits in the report, but I don't recall
15		exactly which.
16	Q	But you recognize the document?
17	А	Yes, I do.
18	Q	And do you recognize it as the office action
19		pertaining to the application that ultimately
20		issued as the 802 patent; is that correct?
21	A	That's my understanding, yes.
22	Q	I represent to you that this document is a true
23		copy of the USPTO non-file office action, dated
24		August 25, 2011, with a patent application that

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Page 125 1 ultimately issued as the 802 patent. Now, please 2 read pages two through four of this document to 3 yourself and tell me when you're done. 4 Α Okay. 5 Now, look at the patent, look at the preamble of 0 claim one. It says, "Method for electrostatically 6 7 inhibiting harmful particles from infecting an individual through, " et cetera. And the other 8 9 one in claim number two says, "A formulation for 10 electrostatically inhibiting harmful particles, 11 harmful particulate matter from infecting an individual." 12 You see that, right? 13 14 Α Yes. 15 Are you aware that prior to this office action, 0 16 instead of the word inhibiting, it was the word 17 preventing; are you aware of that? 18 That's what the examiner has quoted here. Α 19 The examiner rejected the claim on the 112 first 0 20 paragraph indicating that there is not an 21 adequate written description or enablement to 22 support the term electrostatically preventing; is 2.3 that correct? 2.4 MS. PETERSON: Objection to form.

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- That's what the examiner is stating in this Α office action.
- Q Okay. Now, on page three, last paragraph, it starts with the words -- page three, last paragraph. It's a short paragraph, why don't you read it aloud?
- On page three, you said, right? Α
- Right. 0

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- 9 Α The paragraphs says, "In reading the present 10 specification as a whole, it appears the tenor thereof is that infections, whether they cause 11 12 pathology or not, may be inhibited rather than be 13 prevented. The former allowing at least one 14 infectious material to pass into the system of 15 the host rather than the latter, which indicates that not even one of the infectious material is 16 17 allowed to infect, that is to pass into the 18 system of the host."
 - What does that paragraph mean to you? 0
 - Well, according to this examiner, it seems that Α the word inhibited, as opposed to prevented, allows for partial, there's some sort of -- it allows for some of the infectious materials to pass and others to be prevented. But if you use

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the term prevented, according to his analysis, is that everything has to be prevented.

Q Okay. So in other words, what you're saying is that by -- and, in fact, if we look at the bottom of page -- let's say the examiner did indicate that to cure the problem, you can amend the claim if you change the word prevented to inhibited; is that right?

MS. PETERSON: Objection to form.

- A I'm not sure they're using the term cure, but it says overcoming the rejection below, delete the term preventing and replacing it with the term inhibiting.
- Q Okay. In other words, the difference between preventing and inhibiting is that some harmful particles under the inhibiting standard, some harmful particles could get through, and others would be prevented from -- would not infect the individual; is that what -- do you see that there?

MS. PETERSON: Objection to form.

A You know, I'm reading the examiner's opinion here. You know, I don't agree. You could have similarly preventing. You can have partial

Page 128 prevention or full prevention. 1 2 But inhibiting, according to the examiner, seems 0 3 to mean that you have partial prevention. 4 Α Again, you can still use partial prevention or 5 full prevention. I don't see why inhibiting somehow overcomes that. But again, looking at 6 7 the totality of this claim, you know, to me, the term inhibiting also supports this idea that 8 9 somehow you're going to be resisting that 10 infection. 11 Okay. So you can see that the examiner understood 0 12 what the word inhibiting meant in the context of 13 the claim, right? 14 Objection to form. MS. PETERSON: 15 Α I understand what the examiner meant. I don't 16 agree with the examiner, but I understand what he 17 means. 18 Do you believe that the examiner is a person of 0 19 ordinary skill in the art? I don't know what -- I don't know what his 20 Α 21 qualifications are. 22 0 But you do understand what he means by the term 23 inhibiting, right? 2.4 I understand what's in the office action, yes. Α

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Page 129 And as a matter of fact, that's when the patent 0 office says that that's what it means, that's what it means, correct? MS. PETERSON: Objection to form. Α That's their opinion that they are providing in the office action. But clearly, when I review the claims from a person of skill in the art, to me, inhibiting means you're able to prevent infection. Q Okay. So now, electrostatically inhibiting, doesn't that mean that it uses electrostatics? Α You know, that would be the interpretation that it uses electrostatics, yes. So from a plain and ordinary meaning, in light of 0

So from a plain and ordinary meaning, in light of this office action, electrostatically inhibiting is a definite term, it's something that you can understand that's inhibiting, which you understand what it means, using electrostatics; am I correct?

MS. PETERSON: Objection to form.

A Again, if you're just looking at those two terms outside of the totality of the claims and in view of the specification, that's what it means, electrostatically inhibiting, meaning inhibiting

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based on electrostatic. But you have to read the entirety of the claim and you have to look at in view of the specification.

- Q Is there anything in the specification that would change that definition?
- A Well, the fact that when you're talking about harmful particulate, it is a list of harmful, which ones would be inhibited and at what degree would it -- you know, is the allergens inhibited through the same level as anthrax?
- Q Okay. That's a very good question. Do you believe that one can patent a general medication or a general pharmaceutical formulation that would cover a wide range of pathogens or harmful particles or does it have to be restricted, does the patent have to be restricted to a single harmful particle or can it be general?

MS. PETERSON: Objection to form.

A Again, I have to look at the specifics of that patent and the claims of that patent to make that opinion. What I'm doing is I'm reviewing data too, and my opinions for the 802 is that when you're looking at the claims in view of the specification, you have to consider everything

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Page 131 that's in the specification as well. 1 2 Okay. But you did say that understood what 0 3 electrostatically inhibiting means, and when I asked you is there anything in the specification 4 5 that would conflict with that understanding of the definition, as was in the office action, as 6 7 well as the word electrostatic? Objection to form. 8 MS. PETERSON: 9 Α Again, when I look at the meaning of the claim in 10 view of what is in the 802 patent, it says 11 harmful particulates. Those harmful 12 particulates, there's a spectrum. Some are more 13 harmful than others. So when you say inhibiting, 14 how much do you need to inhibit? 15 0 That's not what I'm asking. I'm asking, is there 16 anything in this specification that would 17 conflict with that meaning of the term? 18 Meaning of just the term electrostatically Α 19 inhibiting? 20 0 Yes. 21 Α Well, the fact that, you know, again, what level 22 of electrostatic field do you need? 23 That's not what I'm asking. I specifically 0 2.4 asked, is there anything in the specification,

Page 132 written down in the specification, that would 1 2 conflict with that meaning of the term? 3 MS. PETERSON: Objection to form. 4 Α Again, I have to look at the entirety of the 5 specification. I don't look at just two terms in the entire claim. I look at the totality of the 6 7 claim and then I look at the totality of the 8 patent. 9 0 Okay. Now, you're looking at the totality of 10 claim one. Okay, let's take a look at --11 electrostatically inhibiting we know that --12 essentially, this is a use. In other words, it 13 is a -- we're looking for a method for 14 electrostatically inhibiting, and essentially, 15 it's a use for the method, and it's also a use 16 for the formulation. So we're saying that this 17 is what the formulation does. 18 electrostatically inhibits, okay. There is not -19 - is there anything in the specification that will conflict with what we're trying to do with 20 21 the formulation or the method? 22 MS. PETERSON: Objection to form. 23 Again, the fact that the term, just 2.4 electrostatically inhibiting is, you know,

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meaning that it is stopping these particles and there's phenomena of electrostatic. But other than that, you know, the specification doesn't tell anything about, any of the other properties that are necessary to meet the claim limitations.

Q Doesn't electrostatically inhibiting, as it's used in the claim, mean that it stops some harmful particles from protecting an individual, according to what the examiner came -- isn't that what it means?

MS. PETERSON: Objection to form.

- A Again, that's what the examiner is suggesting in the office action, but a person of skill would look at this and say when you look at the list of different harmful pathogens, when you say inhibiting, and inhibiting means allowing some of them to go, what's the value? If you allow one anthrax to go into your body, you still get infected.
- Q Right. But that's -- isn't that why the examiner specifically changed preventing to inhibiting?
- A No. But if the claim is directed towards inhibiting and also inactivating, you have to look at it in the context of specification. You

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Page 134 know, if you get one Coronavirus in your body, 1 2 you still get infected. 3 Q But you are aware that the examiner made a ruling in this particular case that if it was changed to 4 5 inhibiting, it would be acceptable; is that 6 correct? 7 Objection to form. MS. PETERSON: It would be acceptable to him. 8 Α 9 0 Okay. But he is essentially an official in the 10 U.S. Government; is he not? 11 I mean, this is his opinion. That's what he's Α providing in the office action. 12 13 Let's take a look at the claim, and we're going 0 14 to talk about claim -- take a look at claim 15 number two. We know for the plain meaning of the 16 term, of what electrostatically inhibiting 17 harmful particulate matter, in other words, 18 that's the intended use of the formulation, okay. 19 So in other words, you understand that electrostatically inhibiting harmful particulate 20 21 matter from infecting an individual through nasal inhalation is an intended use of the formulation; 22 23 is that correct? 2.4 MS. PETERSON: Objection to form.

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- A Again, that's mentioned here in the claim, but you have to look at it in the context of the other limitations. It's formulation comprising at least one cationic agent and a biocidic agent, and then it's attracting the particulate matter into a thin film holding that particulate matter and adjusting for the adhesion of the thin film.
- Q All right.
 - A All of those other elements have to be met as well.
 - Q Let's take a look at the formulation itself, okay. We're speaking about a formulation that has an intended use, okay. And where the formulation is applied to the skin or tissue of the nasal passage; you understand that, don't you?
 - A Are you just asking me to see what's in the claim?
 - Q Yes. In other words, I'm looking at the preamble of the claim two. The formulation applied to the skin or tissue of the nasal passages of the individual, right?
 - A That's what the claim is written. That's the way it was written.

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Page 136 1 You understand that, right? Is there some reason 0 2 that you don't understand that? 3 MS. PETERSON: Objection to form. I understand what's written. But what I'm trying 4 Α 5 to explain is the fact that when you look at that preamble, you also have to look at the other 6 7 elements. What is in the preamble is applied to thin film, 8 0 9 okay. And formulation comprises at least one 10 cationic agent and at least one biocidic agent. 11 Is that understandable? 12 MS. PETERSON: Objection to form. 13 I can read what's written in the claim. Α 14 What does it mean? 15 Α That in this formulation, the ingredients of the 16 composition should have at least one cationic 17 agent and at least one biocidic agent. And then 18 wherein said formulation once applied, has other 19 elements. So basically, you would agree that examples of 20 0 21 the cationic agents and biocidic agents are 22 included in the specification; is that not 23 correct? 2.4 Again, this is a laundry list of different kinds Α

Page 137 of cationic agents, and certainly laundry lists 1 2 of some of these that are biocidic as well. 3 Q Okay. But there's at least one of each, right? But it doesn't tell you which one and it doesn't 4 Α 5 say anything about how much --That's not what I asked. Specifically, it says 6 Q 7 it has to have, that the formulation has to have a cationic agent and a biocidic agent. And 8 9 examples of that, of those agents, are given in 10 the specification. They're listed in the specification; am I correct? 11 12 Α Those examples are given, but again, for person 13 of skill looking at this claim too, they will 14 look at which ones of those will actually do the 15 function that are described in element A, B, and 16 C. All right, that's reasonable. That's reasonable. 17 Q 18 Now, let's go on to element A, okay. Electrostatically attracts the particulate matter 19 to the thin film. Before you said you know what 20 21 that means? 22 MS. PETERSON: Objection to form. 23 What I'm saying is that is, that element, Α No. 24 when you look at in the context of these

Page 138 1 composition without any specific amounts of any 2 specific type of ingredient, you don't know which 3 particulate matter in the specification. have all kinds of particulate matters. 4 5 Is a claim supposed to be a manufacturing 0 specification? 6 7 No, it's not a manufacturer. It's a function Α claim, and therefore, to function in this way, 8 9 when you have so many different kinds of particulate matter, how would all of those 10 particulate matter somehow bind electrostatic? 11 12 Q Okay. We know that the formulation has a 13 cationic agent; is that correct? Because it says 14 so, all right. A cationic agent. One of those that are listed there. We know that the 15 16 formulation has that, okay. 17 Now, if we have the cationic agent and 18 we know some harmful particles are negatively 19 charged, would they be attracted to the thin 20 film? 21 Α Again, depends on whether the cationic agent is actually exposed to the outside of the thin film. 22 23 But it could be -- electrostatic attraction could 0 2.4 be there; am I correct?

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- A Again, depends on what type of charge you have and which type of particulate matter. Would you get the same level of attraction irrespective of any particulate matter? No.
- Q Is it required that it would have the same effective quantity or effect for all cationic agents for all harmful particles or can it vary?
- A Again, I mean, I read the claim in view of all the different elements, if there is something that will actually attract and hold and inactivate. And you look at the specification and it says all of these different bacteria and viruses and allergens are inhibited, that's how I interpret the claim.
- Q If there was only one cationic agent and one bacteria, would this be a valid --
- A That's not the claim. I'm reading the claim of the 802. I'm not reading some other hypothetical patent.
- Q If the claim consists of one of the cationic agents that is listed in the specification, one of them, and it contains one specific harmful particle that is also listed in the specification, and it contains a sufficient

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Page 140 1 quantity, would that expressions be understandable to you? 2 3 MS. PETERSON: Objection to form. Again, that's not the claim of the 802. 4 Α 5 reading the claim as written by the patentee. So to me, I interpret what's on the paper, not some 6 7 hypothetical. Okay. Let's look at B. One of the things that 8 0 9 you indicated was that the term adequate 10 impermeability is not evident. Why do you say 11 that? 12 Α Well, again, looking at the claim element, if 13 you're looking at 2B, where it holds the 14 particulate matter in place by adjusting the 15 adhesion of the thin film to permit said thin film to stick to the skin or tissue and by 16 17 adjusting the cohesion of the formulation to 18 provide adequate impermeability to the thin film. 19 So when you look at in totality, that claim 20 element, what it's saying is that it's going to 21 be a thin film that will basically prevent these 22 harmful particulate matter from passing from one 2.3 side or the other. I believe that adequate 2.4 impermeability is indefinite because it doesn't

Page 141 say what level of impermeability is acceptable. 1 2 Well, isn't adequate a term of degree? 0 3 Α A degree of what? Again, for anthrax, what level 4 of impermeability do you need? 5 Do you understand that in a patent you could have 0 terms of degree, for example, like sufficient 6 7 quantity or adequate efficiency? Is it possible to have terms of degree like that in a claim, in 8 9 a patent claim? 10 MS. PETERSON: Objection to form. 11 Do you know whether it's possible? 0 12 Α Again, maybe in some of those other patents, 13 again, depending on the teaching, the art, to 14 those patents. Here, I'm focusing on the 802. 15 0 Okay, fine. Let's deal with that. What does the 16 term adequate mean? Give me a dictionary 17 definition in your mind what the term adequate 18 means. 19 MS. PETERSON: Objection to form. 20 Α Again, I don't know exactly, you know, in terms 21 of the impermeability, what the claim language 22 here suggests is that it's some level of 23 impermeability, but it doesn't explicitly state 2.4 what that means. And if you looked at in the

Page 142 context of preventing infection, then it becomes 1 2 indefinite because if --3 0 Well --Let me finish. 4 Α 5 Go ahead. Sure. 0 Different particulates have different 6 Α 7 pathogenicity. So what impermeability are you looking for if you're thinking potentially a 8 9 very, very deadly pathogen? 10 Q Okay. So basically what adequate impermeability 11 should mean, and correct me if I'm wrong, should 12 be that the permeability has to be adequate for 13 the purpose of preventing the pathogen from 14 penetrating the thin film, is that not correct? 15 Wouldn't that be the definition of adequate in 16 this case for that particular purpose? 17 Α Well, again, if that's the definition, then --18 and that's why it's indefinite, because different 19 pathogens require different levels of impermeability depending on how potent they are. 20 21 Q But for a given pathogen, let's say any given 22 pathogen, the term adequate impermeability would 23 not be indefinite; would it, for a given 2.4 pathogen?

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MS. PETERSON: Objection to form.

- A Again, but that's not here. In context of the 802 and these claims, it doesn't explicitly say, this is the pathogen. It says all of these pathogens and allergens.
- So in other words, you can't come with a claim that would be general then? You couldn't claim more broadly than is in the specification; is that correct?
- A But you have to inform a person of skill what that meaning of the claim is in view of the specification. Right now the specification is listing all of these different particulate matter, harmful particulate matter, and you have a term like adequate impermeability, doesn't say to a person of skill in the art, doesn't explain of what level of impermeability you need.
- So in other words, you're saying that because the specification in this patent is not definite as to exactly what pathogen you're going to use and exactly what cationic agent you're going to use, and what the exact concentration is, that the whole thing, the claim is indefinite?

MS. PETERSON: Objection to form.

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A No. What I'm looking at is interpreting the claims in view of the specification, and I'm basically opining in my declaration the specific sections that I feel, for example, adequate impermeability is indefinite, because each of these different pathogens in particulate matter will have differential impermeability that would be necessary to prevent them from infecting the host.

- Q Okay. So that is what you believe adequate impermeability to be? In other words, you've just given me a definition of adequate impermeability, where you said it depends on the specific pathogen and the specific adjustments of the adhesion and cohesion? You just gave me that definition.
- A Again, that would be, you know, the way I would interpret specifically the term claim, the claim language of adequate impermeability in the context of the specific type of particulate matter. But the claims are not directed to any type of particulate matter. They're directed to broad. The claims are very broad, and when you look at the claims in view of the specification,

Page 145 1 you see that those particulate matter can be 2 anything. 3 0 And you feel that that's not permissible? Well, in that sense, for a person of skill in the 4 Α 5 art, the claim would be indefinite for that 6 reason. 7 But you, as a person of skill in the art, would 0 be able to perform experimentation using those 8 9 ingredients and to develop a -- would you be able 10 to develop a formulation using those ingredients 11 that would do what you need to do? 12 MS. PETERSON: Objection to form. 13 Not based on the teaching of the 802. Again, as Α 14 I've testified before, the 802 has a list of 15 different ingredients and ranges. So I would 16 have to -- you know, this is the definition of a 17 new experimentation. 18 Wouldn't different percentages have different 0 19 effects on different people? 20 MS. PETERSON: Objection. 21 Α I'm not sure what you mean by that. 22 0 Okay. Let's continue. The next thing that we're 23 speaking about is renders said particular matter 2.4 harmless. Now, we know what the definition, the

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dictionary definition of harmless is. But can the prosecution history change that definition?

MS. PETERSON: Objection to form.

- A Again, I don't know if that's, you know, a legal interpretation. As I do my analysis, I look at it from a technical and from a person of skill in the art. And harmless is also subjective.
- Q Okay. Subjective. As a matter of fact, if you look on page one of the patent, the very first page. Why don't you read the abstract, the full abstract?
- A You want me to read it aloud?
- 13 O Please.

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A "A product to reduce, a method of reducing the risk of inhalation of harmful substances by applying a formulation composition to a substrate or the skin in close proximity of one or more nostrils. This formulation when applied creates an electrostatic field having a charge. The electrostatic field attracts airborne particulates of opposite charge to the substrate and are in close proximity to the substrate close to the skin. And a biocidic agent renders microorganisms coming in contact the substrate or

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Page 147 skin less harmful." 1 2 Less harmful, okay. So basically, that was the 0 3 -- because it were inhibiting, and not preventing, the term less harmful means that 4 5 perhaps some can get through, some can't; am I right? 6 7 Objection to form. MS. PETERSON: Again, if you look at the specification about 8 Α 9 some of those harmful agents, you know, these 10 could be anything from allergens to bacteria to 11 viruses, to all different kinds of pathogens. what is less harmful for, you know, fungals or 12 13 what is less harmful for Coronavirus getting in? 14 What's less harmful for smallpox virus? 15 less harmful for influenza virus? 16 0 Okay. When you read scientific articles, do the 17 scientific articles have an abstract? 18 They do. Α 19 When you read an abstract, do you typically 0 20 understand what it is that the article is trying 21 to convey before you read it? I usually read the abstract, but I also look at 22 Α 2.3 the conclusion and also look at, if I'm 2.4 interested in that particular research, I would

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look at the methods.

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- Q But reading the abstract that you just read, as a separate item, forget the rest of the patent, if you were looking at this abstract trying to figure out whether you were going to read this patent, is that abstract understandable?
- A Again, when a person of skill looks at the patent, they look at the entirety of the patent.

 They're not just looking at the abstract. So you have to look at the patent in total, and you look at the abstract in the context of other sections of the specification.
- Q Doesn't this abstract specifically state what the formulation and the methodology is going to do? Doesn't it say it in black and white?
- A Again, abstract by itself has certain sentences, but you don't just look at the abstract. You look at the claims. You look at other sections of the specification. And when you start to interpret these harmful particulates in the specification column three, you have descriptions of what those harmful particulates are. It's right on line 44 up to -- continues all the way up to line 65.

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Page 149 MR. KREMEN: I have nothing more. I don't have any MS. PETERSON: questions. The witness will review and reserve the right to make corrections to the deposition and will sign it. (Whereupon, the deposition in the above-entitled matter concluded at 12:20 p.m.)

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Page 150 1 CERTIFICATE 2. COMMONWEALTH OF MASSACHUSETTS COUNTY OF PLYMOUTH, SS 3 I, Susan Baxter, a Professional Court Reporter 4 5 and Notary Public in and for the Commonwealth of Massachusetts, do hereby certify that the foregoing 6 7 deposition of MANSOOR AMIJI, was taken before me on 8 October 14, 2022. The said witness was satisfactorily 9 identified and duly sworn before the commencement of 10 his testimony; and that such deposition is a true 11 record of the testimony given by the witness. 12 I am not connected by blood or marriage with any 13 of the said parties, nor interested directly or 14 indirectly in the matter in controversy. In witness whereof, I have hereunto set my hand 15 16 and Notary Seal this 17th day of October, 2022. 17 18 - Sevan Bostin 19 Susan Baxter, Notary Public My Commission Expires: 20 21 February 21, 2025 22 23

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Page 151 TRUTEK CORP. VS. BLUEWILLOW BIOLOGICS, INC. 1 2 DEPOSITION OF: MANSOOR AMIJI 3 DATE: October 14, 2022 4 The above-referenced transcript is available for 5 review. 6 Within the applicable timeframe, the witness 7 should read the testimony to verify its accuracy. 8 there are any changes, the witness should note those 9 with the reason on the attached Errata Sheet. The witness should sign the Acknowledgment of 10 11 Deponent and Errata and return to the deposing attorney. Copies should be sent to all counsel, and 12 to Veritext at CS-NY@veritext.com. 13 14 Return completed errata within 30 days from 15 receipt of testimony. 16 If the witness fails to do so within the time 17 allotted, the transcript may be used as if signed. 18 Yours, Veritext Legal Solutions 19 20 21 22 23 2.4

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1	CASE: Trutek Corp. Vs. BlueWillow Biologics, Inc.
2	DEPOSITION OF: Mansoor Amiji
3	Acknowledgment of Deponent
4	I, Mansoor Amiji, do hereby declare that I
5	have read the foregoing transcript, I have made
6	any corrections, additions, or changes I deemed
7	necessary as noted above to be appended hereto,
8	and that the same is a true, correct and complete
9	transcript of the testimony given by me.
10	
11	Mansoor Amiji Date
12	*If notary is required
13	SUBSCRIBED AND SWORN TO BEFORE ME THIS
14	, DAY OF, 20
15	
16	Notary Public
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[**& - 802**]

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Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

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